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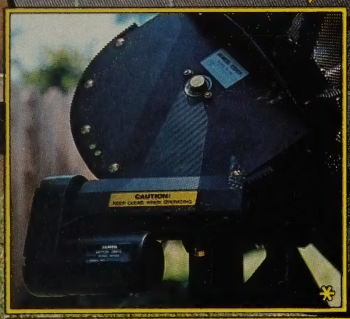

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About the Cover: *Many nations that use geosynchronous satellites for domestic telecommunications are trying to conserve their limited resources by leasing only as much capacity as they need. According to Dr. Joseph N. Pelton of Intelsat, developing countries with limited means that launch their own satellites will end up paying for unused space segment-capacity. Story on page 20. Cover photomontage by Steve Hunt.*

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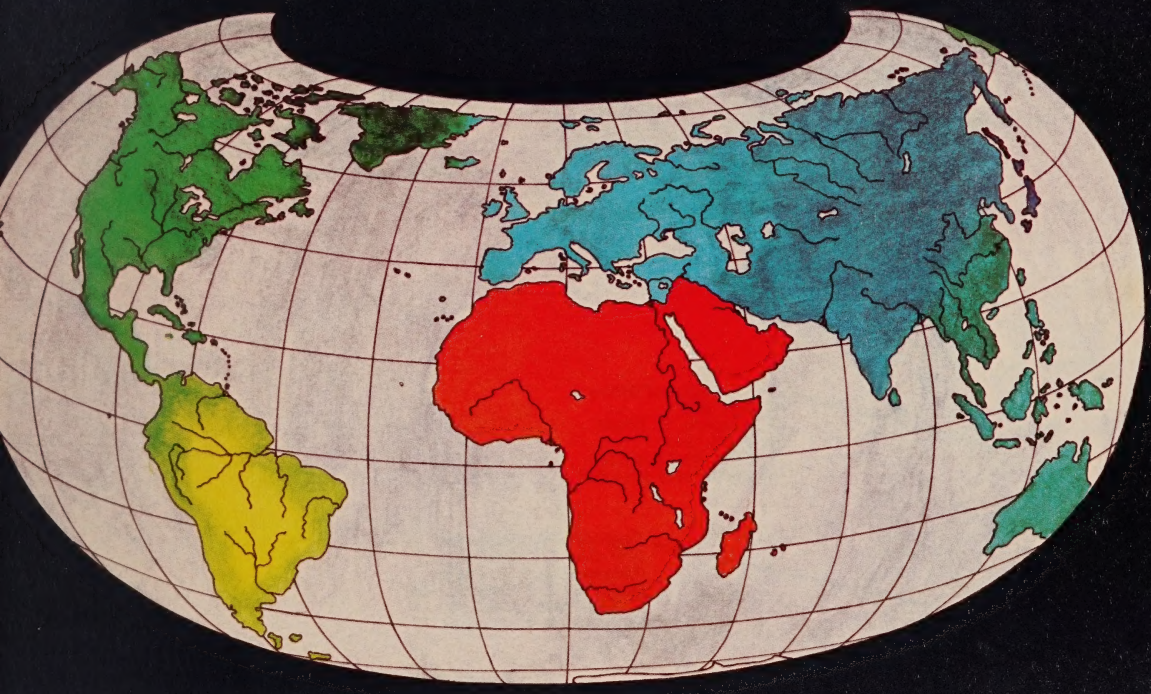

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Satellite World

C-band Margin-above-threshold Chart for 4-, 5-, 6-, 7.5- and 10-Meter Aperture Antenna Earth Stations

ANTENNA SIZE	13 FEET			16 FEET			20 FEET			25 FEET			33 FEET		
LNA N.T.	120°	90°	60°	120°	90°	60°	120°	90°	60°	120°	90°	60°	120°	90°	60°
EIRP LEVEL															
34 dBW	+2.4	+3.4	+4.7	+4.9	+5.9	+7.2	+6.9	+7.9	+9.2	+8.8	+9.8	+11.8	+11.2	+12.2	+13.5
33 dBW	+1.4	+2.4	+3.7	+3.9	+4.9	+6.2	+5.9	+6.9	+8.2	+7.8	+8.8	+10.1	+10.2	+11.2	+12.5
32 dBW	+0.4	+1.4	+2.7	+2.9	+3.9	+5.2	+4.9	+5.9	+7.2	+6.8	+7.8	+ 9.1	+ 9.2	+10.2	+11.5
31 dBW	−0.6	+0.4	+1.7	+1.9	+2.9	+4.2	+3.9	+4.9	+6.2	+5.8	+6.8	+ 8.1	+ 8.2	+ 9.2	+10.5
30 dBW	−1.6	−0.4	+0.7	+0.9	+1.9	+3.2	+2.9	+3.9	+5.2	+4.8	+5.8	+ 7.1	+ 7.2	+ 8.2	+ 9.5
29 dBW	−2.6	−1.4	−0.3	−0.1	+0.9	+2.2	+1.9	+2.9	+4.2	+3.8	+4.8	+ 6.1	+ 6.2	+ 7.2	+ 8.5
28 dBW	−3.6	−2.4	−1.3	−1.1	−0.1	+1.2	+0.9	+1.9	+3.2	+2.8	+3.8	+ 5.1	+ 5.2	+ 6.2	+ 7.5
27 dBW	−4.6	−3.4	−2.3	−2.1	−1.1	+0.2	−0.1	+0.9	+2.2	+1.8	+2.8	+ 4.1	+ 4.2	+ 5.2	+ 6.5
26 dBW	−5.6	−4.4	−3.3	−3.1	−2.1	−0.8	−1.1	−0.1	+1.2	+0.8	+1.8	+ 3.1	+ 3.2	+ 4.2	+ 5.5
25 dBW	−6.6	−5.4	−4.3	−4.1	−3.1	−1.8	−2.1	−1.1	+0.2	−0.2	+0.8	+ 2.1	+ 2.2	+ 3.2	+ 4.5
24 dBW	−7.6	−6.4	−5.3	−5.1	−4.1	−2.8	−3.1	−2.1	−0.8	−1.2	−0.2	+ 1.1	+ 1.2	+ 2.2	+ 3.5
23 dBW		−7.4	−6.3	−6.1	−5.1	−3.8	−4.1	−3.1	−1.8	−2.2	−1.2	+ 0.1	+ 0.2	+ 1.2	+ 2.5
22 dBW			−7.3	−7.1	−6.1	−4.8	−5.1	−4.1	−2.8	−3.2	−2.2	− 0.9	− 0.8	+ 0.2	+ 1.5
21 dBW					−7.1	−5.8	−6.1	−5.1	−3.8	−4.2	−3.2	− 1.9	− 1.8	− 0.8	+ 0.5
20 dBW						−6.8	−7.1	−6.1	−4.8	−5.2	−4.2	− 2.9	− 2.8	− 1.8	− 0.5
19 dBW								−7.1	−5.8	−6.2	−5.2	− 3.9	− 3.8	− 2.8	− 1.5
18 dBW									−6.8	−7.2	−6.2	− 4.9	− 4.8	− 3.8	− 2.5
17 dBW											−7.2	− 5.9	− 5.8	− 4.8	− 3.5

International Satellite Frequency Chart

WH = Western Hemisphere EH = Eastern Hemisphere WZ = Western Zone EZ = Eastern Zone

U.S. Domestic		Intelsat IV & IVA		Intelsat V			Gorizont/Raduga	
Tr. #	Frequency	Tr. #	Frequency	Tr. #	Beam	Frequency	Tr. #	Frequency
							6 [-1]	3675
1	3720	1 [1]	3725				8 [1]	3725
2	3740			11 [1-3] 21 [1-3] 41 [1-3]	WH EH WZ	3742.5		
				51 [1-3]	EZ			
3	3760	2 [3]	3765					
4	3780						8 [4]	3775
5	3800	3 [5]	3805					
6	3820			12 [5-7] 22 [5-7]	WH EH	3825	9 [6]	3825
7	3840	4 [7]	3845	42 [5-7] 52 [5-7]	WZ EZ			
8	3860							
9	3880	5 [9]	3885				10 [9]	3875
10	3900			13 [9-11] 23 [9-11] 43 [9-11] 53 [9-11]	WH EH WZ EZ	3905		
11	3920	6 [11]	3925				11 [11]	3925
12	3940							
13	3960							
14	3980	7 [14]	3975					
15	4000			14 [14-16] 24 [14-16] 34 [14-16] 44 [14-16] 54 [14-16]	WH EH G WZ EZ	3995		
16	4020	8 [16]	4015					
17	4040							
18	4060	9 [18]	4055	15 [18] 25 [18] 35 [18]	WH EH G	4055		
19	4080							
20	4100	10 [20]	4095	36 [20]	G	4095		
21	4120							
22	4140	11 [22]	4135	37 [22]	G	4135		
23	4160							
24	4180	12 [24]	4175	38 [24]	G	4177.5		

Screen Test

Interactive technology was the "star" of Cable '85 while TVRO waited in the wings.

At the Cable '85 conference and exhibition held in Brighton, England, from July 9 to 11, the "buzzword" of the day was *interactive.*

In his opening speech, Sir Richard Burton, head of the Cable Authority, stressed the fact that he was not disposed to grant cable franchises to operators unwilling to install switched-star cable systems because only this type of system would allow for the implementation of interactive services over the coming years.

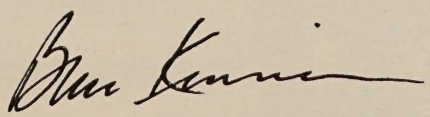
In the absence of *any* marketing surveys that demonstrate an actual consumer demand for interactive services, the United Kingdom might do well to examine the list of interactive casualties in the United States. These include the Qube system, UTV, ACTV, the Games Network, and the highly touted flop, the Nabu Network. Switched-star systems are far more expensive than tree-and-branch systems; saddling U.K. operators with this requirement in order to provide services that may never be in demand makes satellite master antenna television (SMATV) a more attractive alternative, since franchises for these sorts of installations specify no requirements for interactive services.

Sir Richard, however, also revealed that not one single applicant has come forward for an SMATV application. This, perhaps, can be explained by citing ambiguities about billing matters, programming arrangements, and so forth. But where does this leave the programmers who are all dressed up with nowhere to go, so to speak?

One programmer told me his company looked to individual TVROs as a way of gaining enough exposure to insure success. A U.K. TVRO hardware manufacturer said programmers were "bending over backwards" to assist him in any way possible.

British industry, in general, is skeptical about the success of home TVRO for two reasons: systems are expensive, about £1500 (U.S.$2100); and because the British—as they're fond of saying—already receive "the best TV in the world." In fact, the British receive four channels of programming that could be classified as sporadically excellent but mostly deadly dull. In a country where the most popular television show is *Dallas,* it seems doubtful that the general public truly prefers BBC gems like "The Life Cycle of River Moss."

In addition, one U.K. manufacturer intends to introduce a complete 1.2-meter TVRO system for £995 (U.S.$1400) this October. This price is likely to drop further to around £500 (U.S.$700) by mid-1986. Eleven or so unscrambled channels will be available for viewing and, as has been demonstrated in the United States, word will spread quickly that a TVRO not only provides a wider variety of programming, but also delivers better picture reception. Once the word gets out, the British will find that TVRO is their cup of tea.



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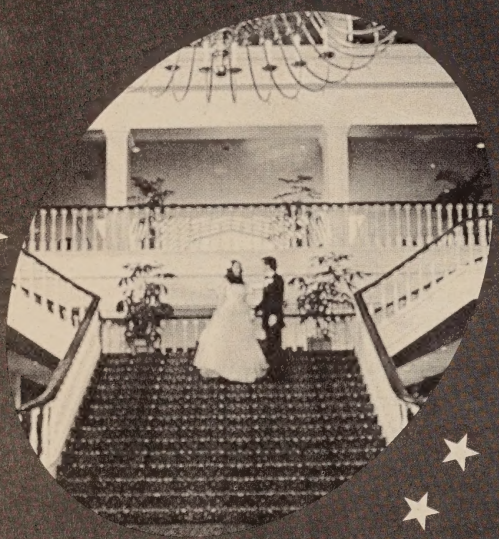

OPRYLAND'S NEW STEAMBOAT, "GENERAL JACKSON"

To the Editor

Jonathan Miller Picks a Fight

I write in the absence of Mr. Richard Colino, Director General of the International Telecommunications Satellite Organization [Intelsat], to register my strong protest at the mischaracterization of Mr. Colino's attitudes and actions, and the preposterous assertion that his defense of Intelsat constitutes anti-Americanism, contained in the article by Mr. Miller entitled "Intelsat Picks a Fight," published in the June 1985 edition of *Satellite World*. I am also concerned by the general lack of balance in the article which deals with very important issues that warrant more objective treatment.

As an Australian citizen with a career in international telecommunications spanning the past 25 years, I have long regarded the U.S.-led establishment of Intelsat as a superb U.S. gift to the world—a gift of magnificent dimensions that has incidentally reaped very substantial benefits for the United States, including billions of dollars of U.S. purchases, provision of top quality communications facilities to the United States (over 40 percent of the capacity provided to Intelsat users is for traffic into and out of the United States), and jobs for a very large number of American citizens. It has also generated a very favorable U.S. foreign relations impact as it has constituted a great boon to the world at large in that it has provided at low cost both domestic and international communications links to many parts of the world that so far surpass the facilities previously available as to create a great stimulus to development and to be a genuine major contribution to a better world for all its citizens.

For these very reasons, Mr. Colino has indeed endeavored to defend this great U.S.-initiated international venture from harm by the establishment of separate systems. I would argue that he is right to do so, has been required to do so by all the member countries of Intelsat, and is thus certainly not alone in his defense of Intelsat. I also know that in his defense of Intelsat Mr. Colino is gratified as a loyal American that Intelsat's best interests are also clearly the U.S.'s best interests in these issues.

Mr. Miller, on the other hand, has made plain his views over recent years that unconstrained separate systems should be established. He is, of course, entitled to that view, but he is not entitled to promote it by unwarranted personal denigration of those who do not agree with him as in the case of the article in question.

Indeed, I believe that the article incorrectly and unfairly suggested that Mr. Colino was attacking the U.S. by his defense of Intelsat; it is absurd to characterize the defense of Intelsat as a one-man crusade.

It is a simple matter to establish that Mr. Colino's defense of Intelsat is on instructions of the member governments of Intelsat (including the United States), by quoting from the record of the January 1985 Intelsat Assembly of Parties, which is the government level meeting of Intelsat members. That record notes without dissent that the delegates "endorse fully the continuation of the efforts of the Director General to ensure that the viability of the single global commercial telecommunications satellite system is not imperiled" and "urge all Parties to express any concerns on this matter, either directly or through their Signatories or both, to the Government of the United State of America."

The large and senior level U.S. government delegation (which, incidentally, included Mrs. Diana Lady Dougan, mentioned by Mr. Miller in his article) participated in this decision, and thus it can hardly be anti-American for Mr. Colino to carry out its instructions. Also, the fact that 84 nations framed this resolution appears to me to adequately deal with the implication that defense of Intelsat is a one-man campaign. In addition to this resolution, similar resolutions were unanimously adopted at other international meetings over the past two years, and during the same period at least 73 Intelsat member governments and telecommunications administrations have written directly to the U.S. government to express their concerns on these issues. Many senior U.S. government figures have also spoken out strongly in defense of Intelsat.

Finally, to illustrate that in carrying out his mandate Mr. Colino has been far from rigid in his dealing with the situation, it is again helpful to turn to the record to counter Mr. Miller's assertions. In this regard, Mr. Colino's remarks to the press on December 7, 1984, concerning the then just-released policy statement by President Reagan on this issue (which also included recognition of the need for some protection of Intelsat) speak for themselves. Commenting on this statement, Mr. Colino said: "I am optimistic that this U.S. policy is dedicated to sustaining the economic viability of the Intelsat in what the United States government conceives of as a changing international telecommunications environment. I am confident that the U.S. government will take the appropriate actions to ensure that Intelsat has the pricing flexibility necessary to compete on the same basis as any separate satellite system, and will take any other actions that might be required to achieve that policy objective. . . .The Director General recognizes the important statements of continuing support for the Intelsat global communications satellite system and organization and a commitment to the future viability of the system and organization. Therefore, these comments are offered in a spirit of providing a constructive contribution to a dialogue between the United States government and its Intelsat partners and the evolution of changes in policy as governments and telecommunications entities may agree."

These words can hardly be called "anti-American," particularly in the light of Mr. Colino's instructions from Intelsat member governments.

From all of the above, it will be clear that in seeking protection for Intelsat, Mr. Colino has been acting at the request of the member governments of Intelsat, and that he has attempted to bring about a constructive dialogue on this issue. It is clear also that in the overall debate of this issue within various areas of the U.S. Administration, there are many U.S. citizens who wish to see Intelsat receive such protection as will permit it to continue to derive for the U.S. and the world at large the many benefits that Intelsat has provided in the past and is still providing.

I trust that in the light of these facts your readers will now be able to put aside Mr. Miller's personal attack on a fine American and an outstanding international administrator and address the debate of these issues in terms of the need for protection and preservation of Intelsat which has provided such benefits for the U.S. and the world.

John D. Hampton
Acting Director General
International Telecommunications
Satellite Organization
Washington, D.C., U.S.A.

Editor's Note: *The above letter arrived at the* Satellite World *editorial offices a few hours prior to press time. Our columnist in Washington, D.C., may wish to respond to points raised by Mr. Hampton after we forward this letter to him. For more about Intelsat,* *see page 20.*

Comments on the editorial content of Satellite World *should be addressed to: Letters to the Editor,* Satellite World, *P.O. Box 29, Boise, Idaho 83707, U.S.A. Unless otherwise stipulated, any such submission constitutes agreement to publication in this column, with such editing as is deemed necessary for reasons of brevity and clarity.*

By Jonathan Miller
Washington, D.C.

Supply & Demand

There will be sound and fury at WARC-85; American-style competition is getting popular.

This month the member nations of the International Telecommunication Union (ITU) gather in Geneva, Switzerland, for a five-week World Administrative Radio Conference (WARC). The Space WARC is intended to establish some basic rules to govern the use of the geostationary orbit and the frequencies used for satellite communications.

ITU conferences usually follow a predictable pattern. For the first several days, the chairmen of various working groups are selected—a delicate political minuet in which the developed and developing countries try to balance their interests.

Then the committees start to meet—a tiresome business that generates tons of paper, and is conducted in English, French, and Spanish.

As the conference continues, substantive bargaining begins. After long days in the international conference center, delegates retire to cocktail parties for informal horse-trading.

After about a month, the negotiators grow weary. There are indications that work cannot be completed on time. The conference may be extended a week or two. This is usually a productive step, as many of the negotiators who have other commitments go home; with fewer negotiators, talks move faster.

Finally, everyone has had enough. Not that all the issues have been resolved; there are usually loose ends. The conference usually ends with a decision to postpone the most vexing problems to another conference.

There's no telling if this scenario will be exactly repeated at this year's ITU conference. Since it is certain that there will be another conference in June 1988, the ITU has decided in advance that this year's session will deal only with the broad principles of planning the geostationary orbit. The actual planning is scheduled to occur three years from now at the second, six-week conference.

Nevertheless, the outlook is for an inconclusive meeting. It's incredibly hard for 140 countries to agree on anything, never mind a complex scheme for apportioning the resources of outer space.

Then, there is the ITU tradition of not putting anything to a formal vote. The idea is to reach decisions by concensus—no concensus, no decision.

Even when a majority of countries can agree, unanimity is usually elusive. The ITU rules allow for that, too. When a nation finds itself isolated, it can opt out of whatever decision is taken. This is done through a process called "reservation." By stating their reservations, countries that disagree with the prevailing opinion can serve notice to the world that they will not be legally bound to go along with the majority.

So what does this all mean for the users of satellite communications services? To bastardize Shakespeare, the WARC will be full of sound and fury, signifying only a little. The price of satellite communications may increase—although this is by no means certain. But when all the grand political posturing is over, a fundamental truth will probably emerge: there's not such a wide gulf between the needs of developed countries and those that are still developing.

Fact 1: While it's true that the map of geosynchronous orbital locations printed in *Satellite World* suggests the orbit is getting crowded, there's still plenty of room for more satellites and an even bigger potential for improving the efficiency of existing orbital resources. Large chunks of the Ku-band are still fallow, and the Ka-band is hardly used at all. Multiple spot beams and scanning spot beams are capable of vastly increasing the effciency of future satellites. So are intersatellite links and a host of bandwidth compression and digital and analogue transmission techniques.

Fact 2: Fiber optic cable development and new satellite multiplexing techniques will decrease the pressure on satellite systems to be all things to everybody. It's fair to forecast a decline in the use of transponders for voice.

Fact 3: It is in the interest of developed countries to permit and even encourage developing countries to launch satellites. The developing world is a good market for satellite systems.

Fact 4: When the inevitable conflicts do arise, the forum to resolve them is unlikely to be a conference of 140 nations. In the Western hemisphere, for example, the United States, Mexico, and Canada can far more readily work out mutual accomodations than can an international conference in Geneva.

As the 1985 WARC gets under way, you can expect to read lots of stories focusing on the inevitable political differences and the complicated technical issues (see related story on page 20). Such topics are of interest to those who make their living attending and preparing for international telecommunications conferences, but do not constitute a reason to stay awake at night. There's probably less to the Space WARC than meets the eye.

Weakening Monopolies

One of the most fascinating information products of the American government is a series of reports published by the State Department's Foreign Broadcast Information Service on telecommunications policy, research, and development. The series consists of

translations from all over the world of items found in newspapers and magazines, and heard or seen on broadcasts. It is a window into what is going on in places where the trade press usually never penetrates.

If one trend is clear from the reports, it is that the American approach to telecommunications—to encourage competition and eliminate onerous regulation—may become a global phenomenon. Just a few examples:

• In Beijing, according to the Chinese news service Xinhua, a retired electronics worker named Yao Quingling and her husband have set up the country's first private telephone company. From a switchboard in her home, Mrs. Yao is serving 122 subscribers and employing two operators. A full range of domestic and international connections is offered, as well as morning wake-up calls and an answering service. Mrs. Yao has a waiting list of 100 customers; her monthly profit, according to Xinhua, is U.S.$42.

• In Switzerland, where the Post, Telephone, and Telecommunications department (PTT) has long been an entrenched monopoly, serious consideration is being given to turning telephone operations over to private ownership, while opening up some services according to *Finance and Economics* magazine.

• In Sweden, the Stockholm paper, *Dagen Nyheter,* reports that the national PTT's equipment-manufacturing subsidiary, Teli, is due to be spun off to private ownership this summer. Further privatization moves are being considered.

• In Norway, the Oslo *Aftenposten* reports that a parliamentary communications committee has recommended that the "exclusive rights and monopoly position of the Telecommunications Administration be replaced by more competition with private firms."

Four swallows don't necessarily make a summer. But as these items illustrate, the climate is changing.

This Month's Joke

In America, thanks to fierce competition and a flood of imports, one can now take home a telephone for the price of a pizza. The only problem is, the pizza lasts longer.

Jonathan Miller is the editorial director of Satellite Week *and the* Space Commerce Bulletin, *published in Washington, D.C.*

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NEWS

Several U.S. domestic satellite system applicants have filed responses to a new "transponder-fill" construction permit rule proposed by the Federal Communications Commission (FCC). If the rule were implemented, applicants would have to demonstrate to the FCC that 80 percent of a satellite's transponders would be leased or used once it was activated. Most potential operators told the FCC that they felt such a rule would be arbitrary and unrealistic. The Communications Satellite Corp. (Comsat), however, was amenable; Hughes Aircraft Co. suggested that the FCC reduce the proposed fill requirement to 75 percent. Many applicants, including Ford Aerospace, Western Union, and Clay Whitehead's National Exchange, are already delaying future plans or trying to reduce the scale of their current proposals in order to avoid lengthy comparative FCC proceedings.

Bidding for the U.S. TV rights to the 1988 summer Olympics to be held in Seoul, South Korea, has been postponed until mid-September 1985 because problems associated with the 13-hour time zone difference between Seoul and parts of the United States. U.S. TV interests have asked the international governing bodies of 23 sports to schedule competitions earlier than usual so that live telecasts could coincide with primetime viewing hours in the eastern United States. Many of the organizations say they are willing to comply with such a request, but a few, including the International Track and Field Association, are still evaluating the proposal. American Broadcasting Cos. (ABC) paid U.S.$225 million for the lucrative U.S. rights to the 1984 Los Angeles games; bids for the 1988 rights are expected to fall in the U.S.$300- to U.S.$400-million range—if events are rescheduled.

Through the looking glass? MirrorVision, a new European cable system feed, took over west spot transponder 4 on Intelsat VA F10 at 27.5 degrees west four days after the 50,000-subscriber TEN/The Movie Channel folded in June 1985. TEN shut down while United International Pictures (UIP) and media magnate Robert Maxwell, both TEN partners, were quibbling about the size of their respective holdings under different reorganization plans. The new service, a subsidiary of Maxwell's group of Mirror newspapers, has been airing the movies scheduled by TEN. UIP, a consortium of U.S. film companies, and the Rank organization have reportedly agreed to license films to MirrorVision while they negotiate permanent contracts.

The U.K.'s DBS partners bit off more than they could chew.

Independent programmers that have planned a pan-European 'superchannel' using a Ku-band transponder on Eutelsat's ESC-3 were scheduled to make a final decision on a three-year, U.S.$3.6- to U.S.$4.2-million lease by July 31, 1985. An Intelsat or a Telecom transponder could also meet their needs. The channel was conceived as an optional alternative to the direct broadcast satellite (DBS) plans of the United Kingdom's "21 Club", a loosely knit organization comprising the British Broadcasting Corp. (BBC), the Independent Television (ITV) members, and other independent programmers. In June 1985, after spending £250,000 (U.S.$300,000) on feasibility studies, and after weighing satellite construction bids from Unisat and the Britsat consortium—the only bids allowed by the Thatcher administration—the 21 Club decided that a mutually financed and operated high-power satellite was not viable. The legalization of TVRO and SMATV reception (seen as a threat by U.K. cable programmers), and an ongoing government study evaluating the possibility of advertising on the BBC (a thorn in the side of ITV) may have hastened the end.

After the June 1985 Board of Governors meeting in Bergen, Norway, the International Satellite Communications Organization (Intelsat) announced a 15 percent preemptible domestic transponder lease rate reduction. Users leasing fewer than three domestic spot beam transponders only get a 10 percent break. The new preemptible rates will be reviewed and a new rate scheme for nonpreemptible domestic leases will be discussed at the December 1985 Board of Governors meeting. Intelsat will also offer Intelnet II, a two-way microterminal send-and-receive data service, in addition to the receive-only Intelnet I service. The announcements, designed to strengthen Intelsat's position as "provider of first resort" at the World Administrative Radio Conference (WARC-85) to be held this month in Geneva, Switzerland (see related story, page 20), surfaced in the midst of the complex tariff debate involving Intelsat, Communication Satellite Corp. (Comsat: the U.S.-signatory to the multinational Intelsat agreements), potential Comsat and Intelsat competitors, the U.S. State Department, and the U.S. Federal Communications Commission (FCC). Early this year, after President Reagan indicated that the provision of satellite services should be opened up to increased competition, Comsat filed separate earth- and space-segment rates with the FCC. Four months later Comsat reorganized and filed for authorization to transfer its earth station interests to Comsat International Communications Inc. and said it would file new tariffs on behalf of the new subsidiary at a later date. The U.S. government, meanwhile, assured Intelsat that its share of public-switched telephony traffic will be protected; Intelsat, however, says that is not enough and has been lobbying for relaxation of the coordinating policy articles of the Intelsat Agreement that restrict its ability to compete with new U.S. providers and thereby allegedly threaten its ability to meet its global commitments. Both the U.S. and the Intelsat WARC-85 negotiating teams oppose rigid, preplanned geostationary orbital assignments. The U.S. team will reportedly advance a proposal outlining a procedure intended to provide "equitable access through multilaterally agreed sharing of any burdens among all operators"—a notion first advanced in the Intelsat Agreement signed by 11 nations in August 1964.

Charles Wick, Director of the U.S. Information Agency (USIA), met with Arabsat officials during the June 1985 shuttle mission to discuss the possibility of using a C-band Arabsat transponder to transmit Voice of America-style WorldNet TV programming and two-way news conferences (see related story, page 16). U.S.-based Cable News Network (CNN), which will activate its European feed on Intelsat VA F10 in September 1985, is reportedly negotiating its own Arabsat transponder lease.

Police in Pomezia, Italy, put Pompeo Conte's TV set in a sealed bag after he failed to pay the annual license fee. Such fees—U.S.$49 for color sets and U.S.$34 for black and white sets—support Radio Televisione Italiana (RAI), the state broadcaster. Conte said he was entitled to watch the programs broadcast by the private networks, and he took the matter to court. After technicians testified that RAI-broadcast signals could not be blocked out, Judge Domenico Bonaccorci ruled that Conte's set has to stay in the bag until he pays the fee.

U.S.-based M/A-Com is now accepting wholesale orders for the home TVRO version of its VideoCipher descrambler. M/A-Com, which has already fabricated 25,000 cable headend units for Home Box Office (HBO) affiliates, says the consumer version won't be available in large quantities until the summer of 1986. HBO, now testing its scrambling system, hopes it will be sooner—according to the Cable Communications Policy Act of 1984, HBO cannot encrypt its signal on a full-time basis until TVRO descramblers are available in suitable quantities, and a "single marketing entity" and an appropriate billing mechanism are set up. Turner Broadcasting System Inc. (TBS), on the other hand, recently announced that it is now charging U.S. TVRO owners that watch Cable News Network (CNN) and Headline News a U.S.$25 annual fee. As the programming is broadcast in the clear, there is little reason for such viewers to pay anything at all. TBS still has to decide how and when to scramble; if the the services were encrypted, says a TBS spokesperson, the fee would probably not be U.S.$25.

Three geosynchronous telecommunications satellites were successfully deployed by PAM-D (payload assist modules) during *Discovery's* June 1985 shuttle mission: Mexico's C- and Ku-band Morelos A (113 degrees west), the Arab League's C- and S-band Arabsat I-F2 (26 degrees west), and American Telephone & Telegraph's (AT&T) Telstar 3-B (87 degrees west). The three satellites were insured for a combined value of about U.S.$200 million. The launch of the Arab league's second satellite, operated by the Arab Satellite Communications Organization (Arabsat), took place during the airline hostage crisis in Beirut; the fact the Palestine Liberation Organization (P.L.O.) owns two-tenths of 1 percent of this Aerospatiale and Ford Aerospace-built satellite did not go unnoticed in the United States. *Discovery's* crew of seven included Sultan Salaman Abdel Azziz Saud, a 28-year-old nephew of King Fahd of Saudi Arabia; Lieut. Col. Patrick Baudry, a French astronaut trained by the Soviet Union; and the 98th, 99th, and 100th Americans to voyage into space since May 5, 1961, when Alan B. Shepard flew his suborbital Mercury mission. Spartan, a U.S.$3 million telephone booth-sized x-ray telescope built at NASA's Goddard Space Flight Center, was successfully deployed and then retrieved after surveying the hub of the Milky Way for "black hole" stars. Several Getaway Special (GAS) enclosed-canister experiment packages were on board. Erroneous navigational data that confused feet with nautical miles spoiled the first Satellite Defense Initiative (SDI) laser experiment attempt. On the second attempt, a laser on the Hawaiian island of Maui was able to track the shuttle.

Plans for TAT-8, a transatlantic fiber-optic cable that could be in use by 1988, are taking shape. The U.S.$335 million link would have a 296 Mb/s per-circuit capacity. By using existing digital multiplication technology, TAT-8 could simultaneously handle up to 38,000 telephone conversations. TAT-7, laid in 1983, has 4,000 analog circuits. American Telephone & Telegraph (AT&T) would own 37 percent of TAT-8, British Telecom plc (BT) would own 15 percent, and the rest would be split among the French DGT, the West German Bundepost, and 25 other telecom partners. AT&T Communications, Standard Telephone Cables, and Submarcon would lay 6,657 kilometers of cable; laser signal-regeneration systems would be installed at 35- to 55-kilometer intervals. How long could TAT-8 function? Coaxial transoceanic cables have an average operational lifespan of about 25 years.

The Atlantic-basin coaxial cable network

It looked like Independent Television of the United Kingdom had committed the perfect crime when it outfoxed the British Broadcasting Corp. (BBC) for the U.K. distribution rights to *Dallas,* Metromedia's primetime soap opera about the exploits of a ruthless Texas oil baron (see *Worldwatch,* May 1985). Michael Grade, the BBC's programming chief, reportedly told his negotiators not to bid above a certain price after Paul Fox, head of the ITV programming purchasing committee, supposedly assured Grade that ITV was not bidding on the series. Fox apparently did not know that Brian Cowgill of Thames Television, an ITV member, would make the winning bid: an initial U.S.$60,000 per episode. The BBC ultimately bid U.S.$47,500; it had been paying U.S.$44,000. After the winning bid was announced, Grade charged that Cowgill had no authority to buy for the ITV network and publicly chastised ITV for violating a gentlemen's agreement designed to keep the price of imported programming down. The U.K. Office of Fair Trading, prodded by U.S. programming distributors, is now investigating the *Dallas* debate and the alleged practice of anti-competitive collusion.

Rupert Murdoch's U.S.$2 billion purchase of seven U.S. Metromedia TV stations hinges on the Australian becoming a U.S. citizen, a process that can take up to six months. Murdoch will use that time to restructure his News Corp. if he wants a three-continent broadcast empire. News Corp. controls holding companies that own a majority interest in Australian channels: ATV-10 in Melborne and TEN-10 in Sydney. According to Australia's broadcast regulations, a foreigner can only control 15 percent of a station. The Australian Broadcast Tribunal has been monitoring the matter.

Three satellites are scheduled for deployment during *Discovery's* next mission later this month: Australia's Aussat 1 (see *Satellite World,* March 1985), American Satellite Corp.'s ASC-1, and Hughes Aircraft Co.'s Leasat 4. Leasat 3, left in a low orbit earlier this summer when its built-in kick motor failed to fire, could be activated or rescued during the same mission if NASA can devise a suitable plan. Space Shuttle *Atlantis's* maiden voyage in September 1985 will be a secret military mission.

Jacques Regaud, the head of Radio-Tele Luxembourg (RTL) and the highest-ranking French official in Compagnie Luxembourgeoise de Telediffusion (CLT), says that CLT is interested in three major French TV developments: the evolving TDF-1 direct broadcast satellite (DBS) project (scheduled for a July 1986 launch), one of the new private networks (which would be limited to two if the Mitterand administration implements the "Socialist-agenda" recommendations outlined in the recently released Bredin Report), and the terrestrially distributed Canal Plus pay-TV service. Canal Plus weathered a number of storms (see *Worldwatch,* February 1985 and May 1985) before it passed the 300,000-subscriber mark. Regaud said he was in the midst of a "dialogue"—but not conducting negotiations—with Andre Rousselet, head of Canal Plus. "The CLT," cautioned Regaud, "does not have the vocation of a first-aid association." CLT's DBS plans, on the other hand, aren't in the best of health. According to a Franco-Luxembourgeoise intergovernmental memo-of-understanding that presaged Luxembourg's withdrawal from the Coronet DBS project, CLT could lease two medium-power TDF transponders. CLT wants the exclusive rights to advertising carried by the satellite but is unwilling to pay as much TDF is

(continued on page 82)

By Elie J. Boubli
Fofiel International

The 1985 Paris Air Show

Many exhibitors promoted international cooperation at the 36th annual aerospace salon.

Held from May 31 to June 9, 1985, the 36th Paris Air Show was notable both for the spirit of international cooperation displayed between the United States and the Western European countries and for the variety of space program hardware in evidence, especially launch vehicles and equipment for direct broadcast satellite (DBS) systems.

Thirty-three countries were represented at the show, officially known as Aeronautique Espace: 36e Salon International de Paris, and organized by the Groupement des Industries Francaise Aeronautiques et Space (GIFAS: the Group of French Aeronautical and Space Industries). One hundred U.S. firms exhibited in the dome-shaped national pavilion and 111 more displayed their wares on Le Bourget Airport's exposition grounds.

Televised news reports about possible terrorist attacks at the show resulted in some of the tightest security precautions imaginable, including thorough checks upon entering the Air Show grounds, further checks and registration just to enter the U.S. pavilion, and armed gendarmes with German Shepherds manning every doorway.

Not all exhibitors appreciated the security precautions, particularly the unprecedented arrangements for the May 31 visit by President Mitterand that paralysed the Salon for half a day. Terrorist outrages this year against defence targets in France and Germany brought out the strongest force of police and soldiers ever seen at the Salon, deployed so that, according to one exhibitor, "they would have been hitting each other" if anything had happened. Closely guarded by plain-clothes officers, President Mitterand and his brother Gen. Jacques Mitterand of GIFAS toured the show. During their tour, no one was allowed to enter the Salon without a special lapel badge, and exhibitors were restricted to stands or chalets; show facilities—including refeshment stands and toilets—were closed. Incensed exhibitors protested to GIFAS about the waste of valuable trade and business time.

The first press conference of the show was held in the U.S. pavilion by NASA's Isaac T. Gillam IV, assistant associate administrator (customer relations and policy), Office of Space Flight, and Philip E. Culbertson, associate administrator, Office of Space Station. Also in attendance were U.S. astronauts Paul J. Weitz, Dale A. Gardner, and Dr. Kathryn D. Sullivan. The theme of the conference was that the time has come for the development and launch of a U.S. space station—what President Reagan called "the next logical step"—and that the U.S. was seeking international cooperation to accomplish this monumental task with a view to benefiting all mankind.

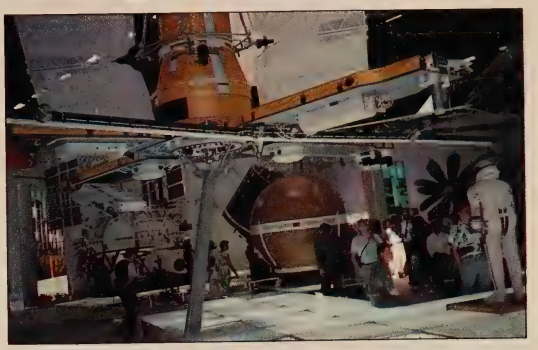
On May 31, presidential personal envoy Senator Ted Stevens read a message from President Reagan addressed to American exhibitors at the Salon. President Reagan said that the U.S. aerospace industry must continue to focus on internationalization in order to compete in the worldwide marketplace: "America is looking to the frontier of space for expanding business, trade, and international cooperation. Development of a permanently manned space station will create new opportunities for free enterprise."

This message was picked up by MBB (Messerschmitt-Bolkow-Blohm) of Munich, Germany, in its displays and advertisements: "MBB, German Partner in International Programs ...."

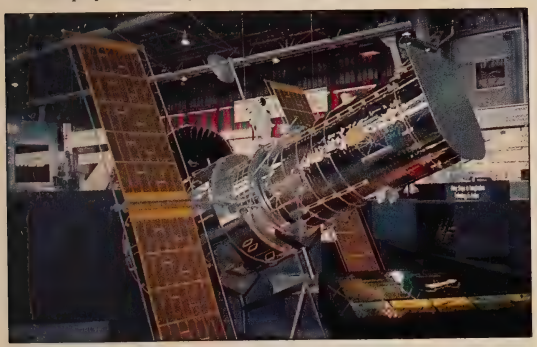
One of the ways suggested to broaden the appeal of the space station, and to provide for some cost sharing of the initial expenses, is to sell "condominium rights" to other countries. Under this concept, familiar to urban dwellers and owners of resort homes, a participating nation would pay the cost of its involvement in the space station beyond the U.S.$8 billion investment of the United States. A number of nations and international agencies have expressed interest in this plan, including Canada, France, Germany, Italy, Japan, and the European Space Agency (ESA).

A memorandum of understanding (MOU) was signed between NASA and the ESA on Monday, June 3, at the ESA pavilion confirming ESA's participation in the preliminary design of the U.S. space station. This agreement sets in motion Phase B studies of the space station's European elements, including the Columbus pressurized module. ESA has agreed to spend U.S.$64 million on studies of the West German-Italian Columbus module that will be a plug-in element of the U.S. space station and that will eventually form the basis of an autonomous European base in space; Canada and

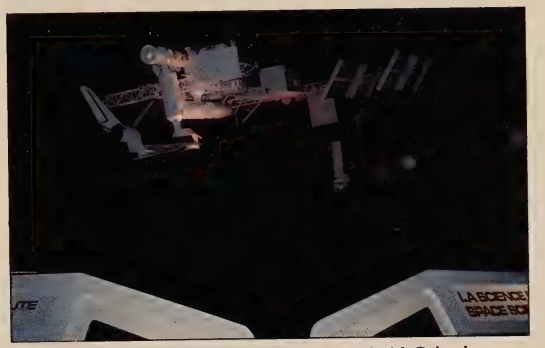
MMB displayed models of space-station modules.



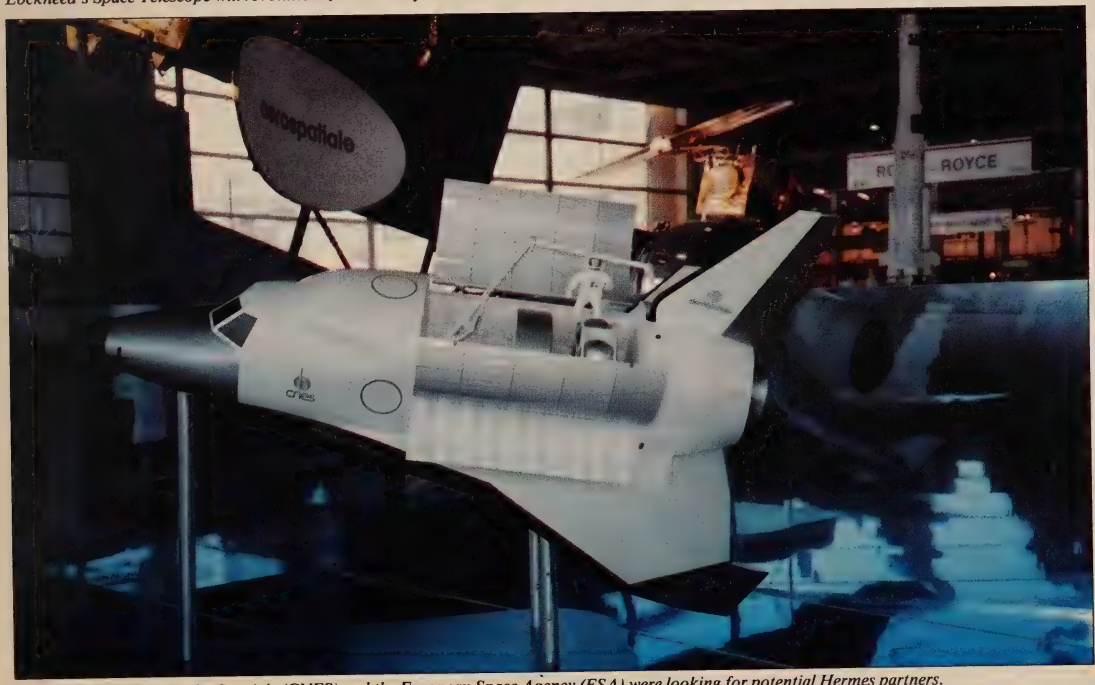
The Soviet exhibit was not as large this year.



Lockheed's Space Telescope will revolutionize astronomy.



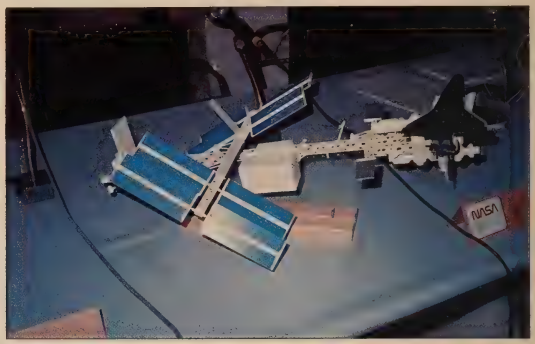
This CNES model shows a Hermes shuttle docked with Columbus.



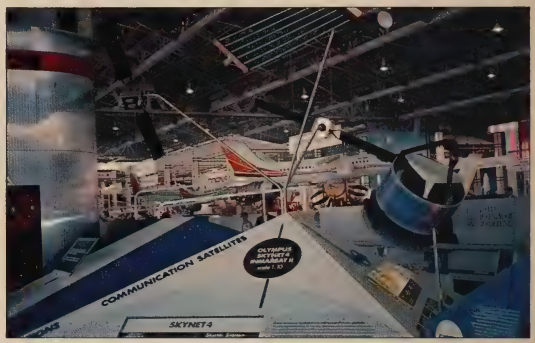
Centre National des Etudes Spaciale (CNES) and the European Space Agency (ESA) were looking for potential Hermes partners.

Photos by Elie J. Boubli

Ariane V launchers would be used to boost Hermes into orbit.



NASA displayed a space-station model at its press conference.



British Aerospace exhibited models mounted on a turntable.

On-Board Transponder Equipment for Direct Broadcasting Satellites
14.12 GHz Low-Noise Receiver
230W TWTA for DBS
DBS Transponder
Frequency: 14 – 14.5 GHz (IN)
11.7 – 12.2 GHz (OUT)
Noise figure: 3.3 dB typ
Gain: 45 dB typ
Weight: 1.3 kg or less
Specialised hybrid and microwave ICs
High reliability
NEC

NEC transponders will be used on BS 3, Japan's next-generation domestic direct broadcast satellite.

Japan have already signed similar agreements.

Several design concepts for the space station are currently being considered, including the concept of clustered modules. The core of the current clustered-assembly concept would be four or five cylinders, each approximately 4.25 meters (14 feet) in diameter by 7.3 meters (24 feet) in length. The volume of each cylinder would be about 105 cubic meters (3,700 cubic feet). The weight of this initial station, meaningless in the space environment but significant in terms of shuttle payload, would be on the order of 36 metric tons.

Several models of the conceptual space station were on display, the most impressive of which was displayed by NASA at the core of the U.S. pavilion. Rockwell International's model of the station emphasized the various solar energy conversion mechanisms under consideration for providing electrical power to the space station, including solar array panels similar to those used on communications satellites.

It was apparent from the exhibits of the CNES (Centre National des Etudes Spatiales), the French national space agency, that France has great interest in the U.S. space station. An excellent CNES audiovisual display showed how the Hermes, the European version of the space shuttle, would use the space station for docking and other maneuvers during the next decade. The CNES made a major effort at the Salon to find European partners to collaborate on Hermes.

Hermes, with a crew of up to six and capable of carrying several tons of freight, would be about half the size of the U.S. space shuttle. Although its potential launcher, Ariane V, has been adopted by the ESA, Hermes has not yet won sufficient support. In the meantime, CNES is willing to pay 50 percent of the cost but is seeking other European countries to share the rest of the cost and work. Development is planned to start in 1988, with first launch in 1997. The CNES exhibit also featured models of the Ariane family and several satellites, including Telecom 1 and the French DBS satellite TDF-1.

RCA Astro-Electronics was the only U.S. communications satellite manufacturer present at the show under its own name promoting its communications and DBS satellites. A contingent of 10 represented RCA, which is making an effort to penetrate the lucrative international market after failing to secure contracts for either of the two Latin American satellite programs it had pursued about three years ago. News of the acquisition of Hughes Aircraft Co. by General Motors was well received by RCA and other competitors in hopes they will be able to compete with the new corporate structure more favorably.

Of particular interest in the Japanese exhibit area was the corner occupied by NEC, which exhibited a prototype model of a fully developed high-power traveling wave tube amplifier (TWTA) and electronic power conditioner it developed at its own expense for use on board BS 3, the next-generation Japanese direct broadcast satellite. TWTA powers available for Ku-band DBS or SMATV include 100 watts, 150 watts, and 200 watts; solid state power amplifiers (SSPAs) are also available to cover the ranges from C- to Ka-band. NEC has great hopes its TWTA will be adopted for use by other DBS projects around the world. The high-power DBS market is currently suffering from the fear of poor performance by this key payload element.

Lockheed exhibited its Space Telescope, which will expand the observable universe by 350 times, to a distance of 14 billion light years compared with man's unaided eye limit of 600,000 light years and a ground observatory limit of 2 billion light years. With a resolution 10 times sharper than previously attainable, the space telescope will enable scientists to see objects 50 times fainter than possible from Earth-based observatories. Working in conjunction with NASA's TDRS east and west satellites, the Space Telescope will analyze the ultraviolet, visual, and infrared spectral ranges.

British Aerospace (BAe), which was just awarded the contract for the development and construction of Inmarsat satellites, exhibited a rotating display of its various communication satellites. Because of the Inmarsat deal, we can expect to see BAe become a serious competitor for future international satellite programs.

As would be expected, Arianespace, the builder of the Ariane series of launch vehicles, displayed models of its various spacecraft, and Aerospatiale displayed a scale model of the Arabsat 1 satellite, which was successfully launched by Ariane earlier this year. With 25 C-band transponders and one S-band "community DBS" channel, this satellite will provide communications for the 21 countries of the Arab League.

Dornier displayed the satellites in which it has participated at the subsystem level as well as the satellites it built as prime contractor for the German government.

Eurosatellite, which is mainly a DBS marketing organization, exhibited the German TV-Sat, the French TDF, and the Swedish Tele-X DBS satellites.

Adorned with a giant poster of Gorbachev, the U.S.S.R. pavilion featured fewer displays than in previous years. However, one should remember that Russian launches outnumber American launches by 4 to 1. Out of 100 yearly Soviet launches, 70 percent are for military purposes, 20 percent for combined civil/military payloads, and 10 percent are for scientific reasons.

The Soviet Union now has 100 operational satellites in orbit and among the objects floating in space, 2,286 are thought to be Russian. The Soviet space objectives can be broken down into four areas: a permanent space station that can accommodate 12 people; two versions of a space aircraft, one similar to the U.S. space shuttle, the other resembling the French Hermes; development of a super launcher on the lines of the Saturn V in the Apollo program; and extending military activity so the Soviet Union will not be outdistanced by the Americans. In regard to the last item, there was a display of the new Soviet jumbo cargo plane. Inches bigger than the U.S. C-5, the Antonov An-124 is designed to carry 150 tons to and from unprepared tundra airstrips.

The People's Republic of China was mainly interested in promoting its Long March expendable rocket. China claims that the Long March 3 will be able to place around 2.5 tons into geosynchronous orbit.

Conspicuously absent this year from the show were the U.S. space shuttle and the AWACS early warning detection aircraft. In view of the increasing competition NASA is facing from Ariane for commercial payloads, one can only assume that security reasons forced the U.S. agency to pass up an opportunity to market its delivery system.

By Stephen J. Birkill
Europe Bureau Chief

Voice of America TV

The U.S. Information Agency wants its daily WorldNet feeds to change the way Europe views Washington, D.C.

Voice of America TV is coming! We have been hearing the cry for three or four years, almost from the time the West became aware of Russia's powerful satellite TV transmissions. Uncle Sam's "propaganda" channel, went the rumors, was imminent on Intelsat, on a relocated Satcom, on a modified (or otherwise) TDRS, even—some said—on Gorizont! It was going to knock all other signals out of the sky, and start the European TVRO boom. Now it has arrived on Eutelsat, in a low-key, almost refined form.

April 22, 1985, saw the inauguration of the U.S. government's "WorldNet" daily television service to Europe. Monday through Friday, from 1200 to 1400 hours GMT, the U.S. Information Agency (USIA) broadcasts (and I use the word advisedly) a live two-hour program of news and information with an American slant, to European broadcasters, cable TV companies, SMATV systems, and, indeed, to all whose own country's regulatory framework allows them to view the programs. According to USIA, this makes the United States the first government to operate its own daily international television service.

Part of the USIA plan involves the equipping of some 60 American embassies and consulates throughout Europe and Scandinavia for reception of WorldNet programming. At publication date, TVROs are operating at six of these locations: London, Paris, Brussels, Copenhagen, Geneva, and Strasbourg, with further sites equipped and approved awaiting commissioning. These include Stockholm, Oslo, Helsinki, Dublin, Marseilles, and Nice. In addition, a great many broadcasting stations and cable companies, already equipped for ECS reception, are taking and using the WorldNet feed.

Comsat uplinks Worldnet from Etam, West Virginia, U.S.A.

As well as news, the WorldNet programs cover important issues in society, science, technology, entertainment, sports, culture, and business. At 1200 GMT, after the statutory Eutelsat warning about illegal reception, viewers are advised of the program material's copyright-free status; broadcasters and cable TV operators are encouraged to make free use of WorldNet material in their programs. Each day's transmission begins with *America Today,* a round-up of news-related features from the United States. *English, American Style* is a daily five-minute slot attempting to explain to non-anglophone Europeans the intricacies of spoken American English. This is typically followed by a half-hour popular science or arts feature. Twice per week, U.S. government policy-makers and prominent Americans outside of government participate in interactive interviews with European journalists, using a return voice link, in a program titled *Euronet One-on-One.* The day's transmission closes with a recording of the previous evening's ABC News *World News Tonight* or some other news program. Unlike the preceding items, this segment is not copyright-cleared for rebroadcast. Quaintly, at around 1400 GMT, USIA bids Europe "Goodnight."

WorldNet's European broadcast operation is the latest development in a program which began in November 1983, at the time of the U.S. incursion into Grenada. In its interactive form, WorldNet was seen by the State Department as a way of countering adverse European public opinion, and clarifying and amplifying U.S. foreign policy by making the policy-makers accessible to the European press and broadcasters. In the inaugural broadcast, Jeane Kirpatrick, then the U.S. Ambassador to the United Nations, and two Caribbean prime ministers, were linked by satellite tele-

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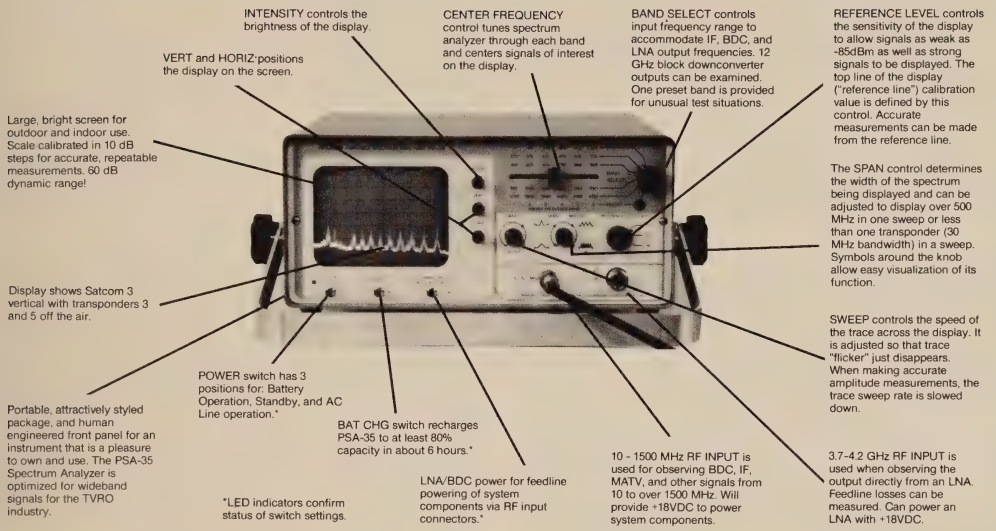
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KEYWORD EXPLANATIONS

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conference circuits to journalists in several European countries. WorldNet subsequently became an approximately weekly TV transmission by Intelsat global beam, to all parts of the world. More recent WorldNet conferences have featured President Reagan and Secretary of State George Shultz answering questions from Europe hours before Reagan's departure for the economic summit in Bonn. The conferences have not been confined to politics, either. Cardiac replacement technology, for example, was discussed in a Euronet exchange featuring Salt Lake City, U.S.A., physicians Jarvik and DeVries.

Modernizing the USIA

The man behind WorldNet is USIA director Charles Z. Wick. He is credited with having given the agency its biggest shake-up ever (President Reagan called it a "renaissance"). In three years Wick has increased the agency's annual budget from $457 million to $796 million, and has begun a sweeping modernization program for Voice of America, to upgrade its 1950s broadcasting hardware to 1980s standards. Creating WorldNet out of the agency's underactive satellite television division is perhaps his most spectacular feat. "These WorldNet broadcasts," says Wick, "will be seen on European television, heard on radio, and read in newspapers. The creation of a daily WorldNet television service will strengthen the historic ties that bind the United States and Europe."

In 1984 USIA set up a demonstration WorldNet conference using the ECS satellite. Between 1315 and 1400 GMT on September 17, the U.S. TV pictures were fed to Europe in NTSC color on the Major Path 1 satellite, Intelsat V F2 at 34.5 degrees west. They were then converted in Brussels to the PAL system and uplinked to Belgium's transponder 9 on ECS F1. The signals were seen by invited press audiences in The Hague, Stockholm, and Slough (United Kingdom), as well as in Brussels. Return audio circuits to Washington were provided, and apart from some complaints of sound distortion (no doubt due to the use of CCITT J.17 audio pre-emphasis with unsuitable receivers) and discomfort with the audio delay around the loop, the demonstration was judged a success and proved the validity of the technical concept.

As in the case of Cable News Network (CNN), USIA was presented with a number of alternative options for signal delivery over western Europe. The agency could, for instance, have contracted with British Telecom International for international TV service lease of a Ku-band east spot full transponder on the "U.K. cable" Intelsat V F4 (now VA F10) positioned at 27.5 degrees west. This would have permitted single-hop service to European TVROs. Or they could have used Ku-band capacity on France's Telecom-1 F1 satellite at 8 degrees west. They could even have made the transatlantic hop using Telecom-1's C-band capacity. After negotiations with various organizations including Visnews and British Telecom International (BTI), USIA signed a $1.66 million contract with the French PTT for time on France's ECS (Eutelsat I-F1) transponder 4, plus French facilities for downlinking the transatlantic hop, standards-converting to PAL, and uplinking to ECS. The agreement was concluded in Paris on March 29, 1985, and provided for 520 hours of European transmission time during 1985.

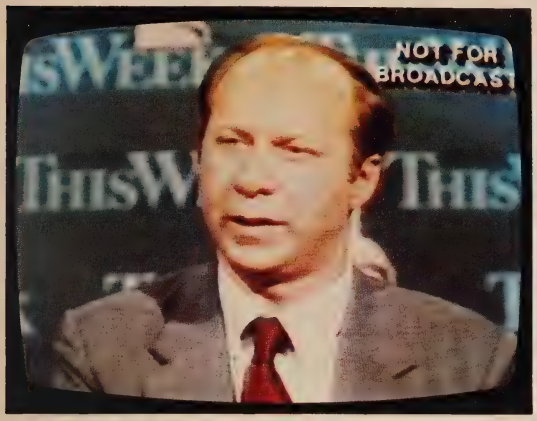
From the USIA studios in Washington, D.C., the WorldNet output goes in 525-line NTSC format to the Comsat Earth Station at Etam, West Virginia, U.S.A. At Etam, the signal modulates a 14.285-GHz carrier, one of several eastbound transatlantic carriers beamed up to the 241-MHz bandwidth that accommodates transponders 7 through 12 on Intelsat V F3, the Altantic Primary satellite at 24.5 degrees west. Audio is by a standard 6.6-MHz Intelsat subcarrier. Downlink carrier frequency is 11.485 GHz, directed into the East Spot beam. The satellite targets this beam on Europe, but the signals are too weak for adequate reception by small TVRO antennas. To make efficient use of the 241-MHz transponder bandwidth, Intelsat shares the spectrum and power resource among several carriers, apportioning to each only sufficient power for its application. In the case of the WorldNet TV carrier, this means a downlink EIRP of about 35 dBW, permitting reception at France's Standard C earth station at Bercenay-en-Othe, near Troyes.

At Bercenay the received video signal is standards-converted from NTSC to 625-line PAL, and passed to the uplink system serving transponder 4 ECS F1. The Spot West downlink beam then broadcasts the WorldNet output across the whole of Western Europe and Scandinavia. Nominal uplink center frequency is 14.271 GHz, giving a downlink at 11.471 GHz, polarization X (horizontal, as used for TV-5, TV-3 Catalonia and the New World Channel). Audio subcarrier is at 6.65 MHz, with J.17 pre-emphasis.

The French Connection

But since its launch on April 22, WorldNet has been only occasionally transmitted (and that due to operational error) on the 11.471-GHz French frequency. To the consternation of USIA, the French PTT has taken it upon itself to shift frequency on most days up to 14.312/11.512 GHz for the WorldNet service. This has upset WorldNet users for two reasons: first, TVRO equipment set up on the TV5 frequency prior to the WorldNet launch yielded blank screens (and red faces) on Day One; second, not all ECS TVRO antennas have been finely adjusted for rejection of the cross-polarized signal—it just hasn't been necessary with the frequency offsets hitherto employed between signals in all four cross-polarized active transponder pairs. But 11.512 GHz, although it falls in the bandwith of the French transponder, is not authorized by Eutelsat for French use. It lies very close to the 11.507 GHz employed by the German PTT for their SAT-1 cable TV service on transponder 10, with Y (vertical) polarization, and inevitably some terminals in the field have suffered visible interference, both from SAT-1 into WorldNet and from WorldNet into SAT-1.

An interesting, if only tenuously related observation concerning transponders 4 and 10, is the use of the West German transponder 10 for digital data transmission, simultaneously with the SAT-1 TV transmission. The data, rather than being multiplexed with the baseband TV signal, shares the bandwidth in an FDM mode, having its own wideband carrier in the lower half of the German transponder. Center frequency is approximately 11.470 GHz, giving it a co-channel relationship with TV-5. Due apparently to the lower level of the data carrier and the totally different modulation format, no interference with the French service is experienced. No doubt a degree of care



The United States, says USIA, is the first government to operate its own daily international service.

is taken in setting the polarization purity of the data terminals rejecting the horizontally polarized TV signal. The effect of transponder-sharing is minimal: SAT-1 suffers a back-off of less than 1 dB.

It is hard to think of a technical reason for France's decision to change the WorldNet transmission frequency. One can only speculate on French ambivalence toward a paying service which by its nature must also fuel the national paranoia over American cultural imperialism. Could the political embarrassment of a French transponder carrying U.S. government programming in the clear while France's own TV-5 service must be scrambled, be offset somewhat by a frequency shift that serves to keep WorldNet out of TV-5 headends?

In parallel with the Ku-band feed to Bercenay, WorldNet has been carried (on most days) simultaneously on standard C-band half-transponder global channels on Intelsat, transponder 12. This has been seen on both the Atlantic Primary and Major Path 1 satellites on separate occasions, and the same feed was observed in the Pacific Ocean region during the first week of the European operation. These may have been test or demonstration transmissions to specific destinations, as no definite schedule has emerged. All the same, it is likely that some kind of C-band WorldNet feed will become a permanent feature of Intelsat traffic, as the service expands into new areas of the world.

USIA's ambitions clearly go beyond a two-hour daily show for Europe. Expansion of programming hours would allow the inclusion of more news and some popular entertainment programming, thus capturing a wider audience. Significant growth may be conditional on the acquisition of a full-time transponder on a different satellite, as the program day is rapidly filling up on ECS F1. Expansion into other world regions is already under way; the agency has set up conferences involving Intelsat C-band links to Japan and Latin America, and USIA is now negotiating for the lease of a transponder on the new Brazilsat bird to serve Central and South America. The Middle East and Africa also are high on the USIA shopping list, though for political reasons the use of an Arabsat transponder would seem most likely. Telecom-1 at C-band could offer a route into these areas, but the use of an Intelsat hemispheric beam appears a more probable choice.

Whatever form the expansion may take, as global awareness of satellite television increases over the next few years, and the distinction between fixed and broadcasting satellites is further eroded, we can be sure of seeing much more of WorldNet.

By Dr. Joseph N. Pelton
Director of Strategic Planning,
The International Telecommunications Satellite Organization

Intelsat States Its Case

Developing countries that lease domestic services can avoid the high price of unused satellite capacity.

The World Administrative Radio Conference will convene this month in Geneva, Switzerland, to establish procedures for the allocation of orbital locations in the Geosynchronous Orbital Arc (GSO). This conference, also known as WARC-ORB-85, has received much attention and publicity in light of the billions of dollars already invested in communications satellites and the billions more that will follow. This attention is not surprising, given the increasingly important roles of communications satellites in economic, political, and social progress on the national, regional, and international levels.

Most of the speculation about WARC-ORB-85, has focused on whether the current system of *ad hoc* accommodations of newcomers will continue in accordance with the "first come-first served" principle or whether some new form of systematic planning will be adopted to accommodate users of the GSO—especially future ones. The most heated subject of debate has been whether to allocate specific orbital locations at specified frequencies to all countries, regardless of whether the current needs of those countries require them. There is also a question about how such planning procedures will accommodate current users of national, regional, and international systems—accommodating regional and international common-user systems is a particularly important issue because these are the systems that allow the most ready access and most efficient use of the GSO, particularly to developing countries.

Common-user systems are the prime means—and, in some cases, the only means available—whereby developing countries can gain cost-efficient and affordable access to the GSO. Such common-user systems provide developing countries communications capacity at a scale, volume, and price appropriate to their needs. For the overwhelming majority of developing countries, the only practical answer to near-term use of satellites for national communications development or for international services is provided by the Intelsat global system.

Although other common-user systems such as Arabsat, Eutelsat, Inmarsat, and Intersputnik, play an important role in the provision of services to countries around the world, Intelsat is still the prime source of equitable access to the GSO. The Intelsat system provides international communications services to 170 different countries, territories, and overseas departments, of which more than 75 percent are developing countries. In addition, Intelsat leases capacity to some 27 countries, 20 of which are developing countries. When considering the central role that Intelsat plays in the provision of global communications satellite services, it is important to recognize that such services involve far more than having access to an orbital slot in the GSO. Other key considerations include training, network design, integration of terrestrial and space facilities, financing, insurance, operational planning and implementation, and telemetry, tracking, control, and monitoring (TTC&M) services, among others.

As the provider "of first resort" for domestic, regional, and international communications services, Intelsat has a number of unique characteristics:

Universality of Ownership. As defined by the Intelsat Agreements, the Intelsat system is available to all countries of the world on a universal access basis. One hundred ten countries of different economic, social, cultural, and political makeup share in the ownership and control of the Intelsat system. Any member of the International Telecommunication Union (ITU) is eligible to join Intelsat.

Global Interconnectivity. Any country, regardless of whether it is a member of Intelsat, may have access to the global system for domestic, regional, or international service. There are already some 1,700 pathways on the Intelsat system, and the number of possible international links may exceed 2,000 by the time WARC-ORB-85 is completed. With the advent of the new Intelsat Business Services and Intelnet I and II data services, the number of international pathways will continue to grow rapidly. No other communications satellite system comes close to providing a similar degree of global interconnectivity.

Cost Efficiency and Affordability. The Intelsat space segment cost (as measured in transponder cost per year in orbit) has decreased almost two orders of magnitude since Intelsat began operations in 1965 (figure 1). This has allowed Intelsat to reduce charges on 12

different occasions. The utilization charges, when adjusted for inflation, are essentially 20 times less than 20 years ago (figure 2). This increase in cost efficiency is, in large part, due to the technological improvement represented by the increase in performance between Intelsat I (Early Bird) and the Intelsat VI satellites to be launched in 1986 and 1987. The Intelsat VI satellite, for instance, possesses communications capacity 170 time greater than Early Bird, which not only means greater cost efficiency, but also that 170 times more effective use can be made of a single location in the GSO than could be achieved with Early Bird only 20 years ago.

Flexibility to Provide Capacity Upon Demand. The 15-satellite Intelsat network, can be reconfigured to respond to changing demands in a highly flexible and effective manner. For instance, the domestic lease requirements of developing countries can be provided in modest increments of one-quarter of a transponder for long-term leases. Capacity on the new VISTA thin-route communications system can be made available cheaply on a circuit-by-circuit basis. Rather than having to invest hundreds of millions of dollars to obtain space segment capacity, developing countries can do so at costs measured in the hundreds of thousands of dollars (U.S.). Through the use of different power levels of transponders, and antenna beams with spot, zone, hemispheric, and global patterns, the Intelsat system can also meet requirements of a very diverse nature with transponder EIRP levels ranging from a very low-power global beam coverage at 22.5 dBW up to high-power Ku-band spot beam services at 44 dBW.

Technical and Financial Assistance. Since the Intelsat Assistance and Development Program (IADP) began in 1978, some 70 developing countries have benefited from technical assistance projects and have participated in scores of seminars held all over the world. Intelsat has also provided training through the Intelsat Assignee and Young Professionals Program and, with the newly adopted Intelsat Development Fund, will provide a wider range of financial advice, training, support, and funding for space segment and ground segment facilities.

Liability and Protection. Since Intelsat began providing domestic services to

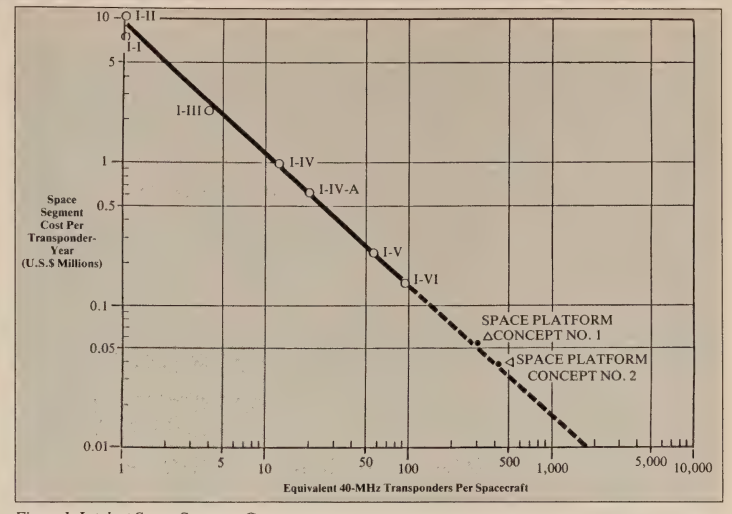


Figure 1. Intelsat Space Segment Costs

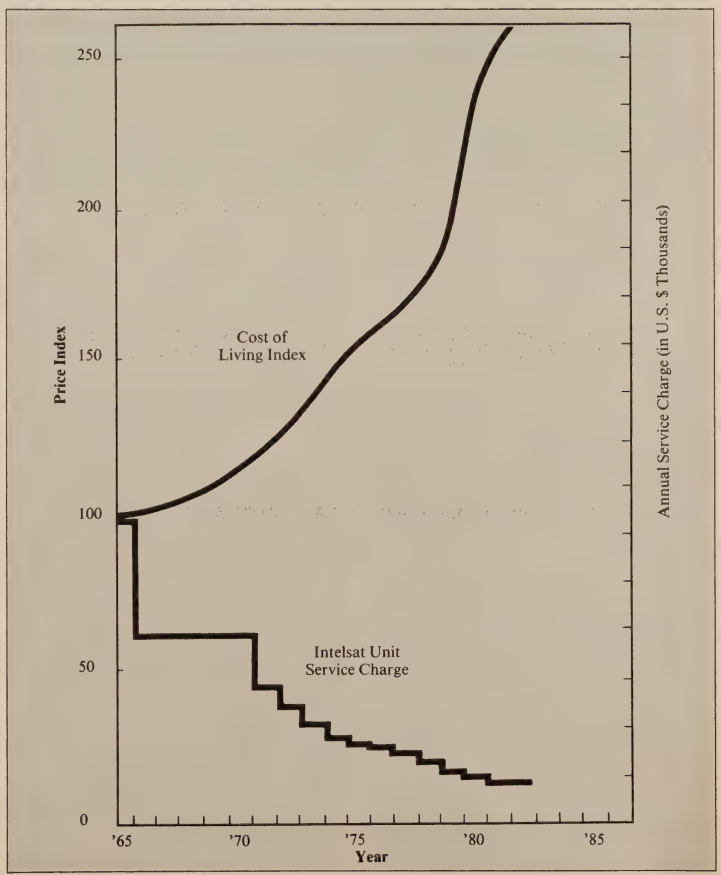


Figure 2. Intelsat Utilization Charges (Adjusted for Inflation)

Table 1. Option One Cost Projections (in U.S. Dollars)

Space Segment Costs	
Two satellites plus one on-ground spare	$135 million
Two launch services including telemetry, tracking, and command for launch	$75 million
Launch insurance (17 percent premium)	$25 million
Financing costs over seven years	$100 million
Operational planning, intersystem coordination, frequency registration, operation and maintenance over seven years of system	$20 million
Telemetry, tracking, and command; and maintenance over seven years	$10 million
Total	$365 million
Earth Station Costs	
40 terminals (5-meter) for telecommunications at $50,000	$2.0 million
250 TVRO terminals (3-meter) at $10,000	$2.5 million
Seven-year financing cost	$2.0 million
Annual operation and maintenance for seven years	$4.0 million
Total	$10.5 million
Overall Costs	
Annual cost per transponder if all transponders used for seven years	$1.09 million
Annual cost of transponder and earth segment per Transponder	$1.12 million
Annual cost per transponder (per utilised transponder-year) if in the first year six transponders are used and two are leased to another country at $1.5 million, growing to ten transponders used and seven leased to another country in the seventh year:	
Fully allocated costs including $43.3 million allowance for lease revenue	$6.06 million
Fully allocated costs including earth segment	$6.3 million

users in 1974, only on one occasion (with a duration of less than 24 hours) has any domestic service been preempted from service. Furthermore, in June 1984, Intelsat adopted a range of priority-of-protection offerings that allow users to purchase the level of protection that they desire. Studies are underway to improve these offerings further by reducing Intelsat domestic service charges and surcharges for higher levels of protection. Other means of planning and security may well be implemented by Intelsat during 1985, possibly by the time this article appears in print.

In preparation for WARC-ORB-85, Intelsat has looked at possible future demands for domestic satellite services, particularly for developing countries. One such study concluded that there are approximately 100 countries where it is unlikely there would be sufficient service needs to justify the launching of dedicated satellite systems during the next two decades. Using a variety of forecasting techniques, the study projected that the combined satellite communications requirement for these countries would be equivalent to just over 200 36-MHz transponders. This represents an average of two transponders per country. The Intelsat system, if properly planned and engineered, could go a long way toward guaranteeing service access to the GSO for these countries, not to mention many countries with higher levels of projected traffic needs.

The basic issue, which may be central to the success of WARC-ORB-85, is whether it is more important to have an orbital location guaranteed to all countries, or whether it is more important to have "guaranteed access to service" in the GSO. This is more than a semantic distinction because it implies for many developing countries a difference between separate dedicated satellite systems and common-user systems in economic and financial terms. This can mean a difference in capital and operating costs of hundreds of millions of dollars. It is, of course, reasonable to expect many countries to want and seek both guarantees for future orbital locations as well as guarantees for service access to Intelsat and other common-user systems.

There are would-be providers of dedicated domestic communications satellite systems who are eager to convince developing countries that investment in their own system is important to achieving the level of protection that they desire. They would add that this approach also achieves true cost efficiency.

This, in a word, is misleading. While there are perhaps exceptions to the general rule, for most developing countries, dedicated satellite systems are oversized for their needs and can be tremendously expensive. Few developing countries have needs that require an investment of U.S.$200 million to U.S.$400 million. These huge capital investments are out of scale to the level of demand that is consistent with a developing nation's communications needs. Tables 1, 2, and 3, for example, show some economic analysis that has been prepared under three different assumptions: (1) a developing country purchases and launches two domestic satellites with an on-ground spare; (2) a developing country purchases a reasonable level of backup protection from Intelsat on long-term lease arrangements; and (3) Intelsat makes available all the projected domestic capacity to meet the communications demand for a seven-year study period.

Option One

Under the first investment option, a total of 48 medium- to high-power transponders would be available in orbit at a total cost of U.S.$365 million for the space segment and ground network control for a seven-year period. This includes the cost of capital financing at a below market rate. Because the satellites would have a reasonably high level of power, relatively small earth stations could be utilized. It is assumed, under Option One, that there is a need for a total of 40 5-meter (16.2 feet) terminals for telecommunications, and 250 3-meter (9.7 feet) terminals for TV reception, available over the entire seven years. The total for the ground segment (including operations) would be only U.S.$10.5 million. Under these assumptions, the annual cost of each of the 48 transponders would be only U.S.$1.09 million and, if the cost of earth stations operations is included, the total cost is still only U.S.$1.12 million per year per transponder.

This, unfortunately, is the world of theory—a world inhabited by satellite and launch vehicle salesmen. No devel-

oping country requires, nor is likely to require in the near future, some 48 transponders. If one returns and examines Option One, on the basis of more realistic expectations—namely that the country might start its domestic operations with six transponders for combined domestic telecommunications and television reception and increase this usage to perhaps 10 transponders at the end of seven years—this would represent a total transponder-year requirement over the seven years of 53 transponder years in orbit.

Assuming that the spare capacity on this domestic system might be leased to other countries at, say, U.S.$1.5 million per transponder per year, with two transponders leased in the first year, and ending with seven at the end of the seven-year period, this would produce a supplemental revenue of U.S.$43.5 million. Seen from this more realistic standpoint, the cost per utilized transponder (after allowance has been made for the U.S.$43.5 million in additional revenues) would be much higher: U.S.$6.1 million per year per used transponder. With earth station and operational costs added in, the actual figure would be close to U.S.$6.3 million per transponder per year.

Table 2. Option Two Cost Projections (in U.S. Dollars)

Space Segment Costs	
One satellite plus one on-ground spare	$90 million
One launch service including telemetry, tracking, and control for launch	$35 million
Launch insurance (17-percent premium)	$15 million
Financing cost over seven years	$55 million
Operating costs	$13 million
Telemetry, tracking, and control over seven years	$10 million
Lease of an average of 3 backup-capacity hemi beam transponders from Intelsat over a seven-year period (assuming a 15 percent reduction from $960,000 per year)	$17.15 million
Total	$235.15 million
Earth Station Costs	
40 terminals (7-meter) for telecommunications at $250,000	$10 million
250 TVRO terminals (5-meter) at $22,000	$5.5 million
Seven-year financing cost	$7 million
Annual operation and maintenance for seven years	$8 million
Total	$30.5 million
Overall Costs	
Annual cost per transponder if all transponders are used for seven years	$1.4 million
Annual cost of transponders and earth segment per transponder	$1.58 million
Annual cost per transponder (per utilized transponder-year) if six transponders are are used and two are leased at $1.5 million in the first year, and if ten transponders are used and seven leased at $1.5 million in the second year:	
Fully allocated costs including $43.3 million allowance for lease revenue	$3.62 million
Fully allocated costs including earth segment	$4.2 million

Option Two

If we now turn to a case where only one satellite is launched into orbit with an on-ground spare, and backup capacity is leased from Intelsat (starting with two transponders and increasing to four transponders over the seven-year lifetime), the space segment investment cost of the 24 transponders in orbit, plus the backup spare capacity from Intelsat (including financing) would represent U.S.$235 million, or a cost per transponder for each of the 24 transponders of U.S.$1.4 million per year.

If the need to uplink to both dedicated domestic satellite transponders and Intelsat transponders is taken into account, the earth segment would have to be designed to operate with larger-aperture earth stations. These costs, including operational and management (O&M) costs over the seven years, would run to U.S.$30.5 million; thus, the cost for all available transponders would increase to U.S.$1.58 million per year. Again, these figures, although seemingly higher than the first case, still sound fairly attractive.

Assuming there is the same actual demand for the transponders, and the same success is achieved in selling leases of spare capacity, the cost of transponders actually used is dramatically different—in excess of U.S.$3.6 million per year, and if earth station costs are included, U.S.$4.2 million per year. In fact, the actual costs under Option Two are over U.S.$2 million per-transponder-per-year less than costs under Option One.

Nor is this the full economic picture. The first two options do not take into account the costs of television programming, of training personnel, or of extending the satellite telecommunications systems by terrestrial links to villages and other users. No allowance was made for new telephones or radio and television sets. Much more money would have to be invested to achieve any practical benefit from this massive new investment. In short, when a hard look is taken at either Option One or Two, we find that hundreds of millions of dollars must be invested to achieve an operational dedicated-satellite communications system. The effective cost per transponder of capacity actually used would be very high and funds for broadcast programming, training, and for telephone, telex, radio, and television sets may not be available because of the heavy investment in satellite facilities.

Option Three

This leaves us with Option Three. Namely, the case in which 53 transponder years of capacity were to be leased from Intelsat for a hemispheric beam transponder at a cost of U.S.$816,000 per year. Under this assumption, capacity to meet all of the projected lease requirements (starting with six transponders in the first year and ending with ten transponders in the last year) could be met at a total space segment cost of U.S.$42.5 million. Admittedly, the earth segment costs would have increased to U.S.$40.5 million, but the optimum communications system in theory should represent more or less a 50-50 split between earth segment and space segment investment.

This somewhat more expensive earth segment would have a higher degree of reliability and could ultimately produce certain savings in terms of O&M costs. The total cost of the space and ground segments over the seven-year

Table 3. Option Three Cost Projections (in U.S. Dollars)

Space Segment Costs	
53 transponder-years of service at $820,000 per year for hemi beam transponders (assuming a 15 percent reduction from $960,000 per year)	$42.5 million
Earth Station	
Costs 40 terminals (8-meter) at $400,000	$16 million
250 TVRO terminals (5-meter) at $22,000	$5.5 million
Financing costs (approximate)	$10 million
Operating costs	$9 million
Total	$40.5 million
Overall Costs	
Annual cost per transponder	$820,000
Total cost of transponders and earth segment per transponder-year	$1.56 million

period would add only U.S.$83 million, and the effective cost of the combined space and ground segments would be U.S.$1.56 million per year. These costs, although higher than those of a completely loaded, domestic dedicated satellite system, are in fact, in the order of three to four times cheaper than any realistic estimate based on the expected actual use of these systems. Most developing countries, of course, have more modest requirements than six to ten transponders per year and, in fact, most would start with one, two, or certainly at the most, three transponders worth of capacity needs.

Choosing the Right Option

Different countries have unique and special plans to meet their domestic communications requirements, national goals, and objectives. This much, however, seems clear. For the next five to ten years, the prime means for developing countries to gain access to domestic and international telecommunications satellite services will be through the Intelsat system and, to a lesser degree, through other common-user satellite systems.

Nevertheless, Intelsat will require the active support and assistance of all countries—developed and developing—to ensure that Intelsat's needs, on behalf of its 170 users, are met. For WARC-ORB-85 to succeed, there must be compromise and conciliation, both within the developed and the developing world, to insure that realistic needs for the year 2000 and beyond are effectively accommodated. This must be not only on paper, but in practice.

New planning methods that are equitable and reasonable, as well as practical and easy to implement, are needed. Those within developed countries who resist the idea that there should be any planning techniques must also consider why developing countries often hold an opposing view. In many ways, the developing countries that are pursuing the idea of "guaranteed access" and longer-term and detailed planning procedures have been stimulated to this view by the very rapid utilization of the GSO by only a few countries. Developing countries, in particular, look at the current patterns of "consumption" of the geosynchronous orbit with some concern (figure 3).

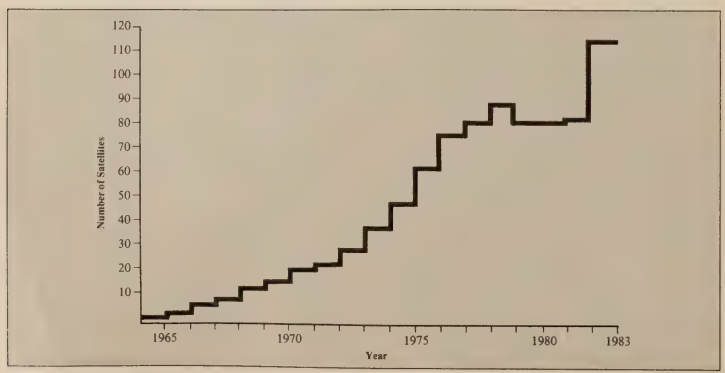


Figure 3. Operational GSO Satellites Over Time

At WARC-ORB-85, the assembled countries should be able to devise the right combination of ingredients to achieve a global balance in our habits. That combination might well blend together common-user systems, technological innovation, and reasonable timetables for updating and improving the world's GSO diet as breakthroughs are made. Ideas such as a reverse-band operation (in the C-band) in Third World countries, as well as new band segmentation, or other concepts that could be integrated into current operational procedures for the geosynchronous orbit have been proposed. Such proposals suggest that a reasonable way to share the fruits of the geosynchronous orbital arc can be found.

Conclusions

New orbital-use techniques, together with the common-user satellite system approach to the orbital arc, can help guarantee reasonable, practical, and perhaps even farsighted solutions. All countries have a common interest in ensuring that the benefits of the geosynchronous orbital arc are available and equitably shared. The key is recognizing that solutions involve far more than a country's name on a piece of celestial real estate. Practical and comprehensive solutions must also involve training of personnel, financing, effective integration of space and terrestrial communications, and many other issues addressed in the recent Maitland Commission report. Certainly, the solution, as the economic analysis in this article shows, is not to have a pell-mell proliferation of dedicated satellite systems for developing countries. The costs could run into tens of billions of dollars and the gains would be minimal.

With good will, pragmatic problem solving, and perhaps a little luck, WARC-ORB-85 ultimately should be able to devise a globally balanced and healthy plan for all countries that allows us to share our important global resource, the geosynchronous global arc, in a just, equitable, cost-effective, and perhaps even clever way.

European Cable Programming

EUTELSAT I-F1 (13.0 Degrees E)

Tr. #	Beam	Service	BW☆	Frequency	Video Pol.	Standard	Descrambler Required?	Audio Format	Video Deviation	Audio Deviation	Audio Pre-emphasis	Beam-Edge EIRP
1	West Spot	**Radio Televisione Italiana** —Italy	36	10.9910 GHz	[H]	PAL	No	6.6 MHz S/C	25 MHz	N/A	N/A	41 dBW
2	East Spot	**3-Sat** —Germany	36	11.0550 GHz	[H]	PAL	Yes ▲	Sound-in-sync	25 MHz	—	—	41 dBW
3	West Spot	**Olympus TV** —Holland	30	11.1750 GHz	[H]	PAL	No	6.6 MHz S/C	20 MHz	50 kHz	50 μs	41 dBW
4	West Spot	**TV-5** —France	36	11.4910 GHz	[H]	SECAM	No	6.65 MHz S/C	25 MHz	75 kHz	△	41 dBW
4	West Spot	**New World Channel** —Norway	36	11.4720 GHz	[H]	SECAM	No	6.65 MHz S/C	25 MHz	75 kHz	△	41 dBW
4	West Spot	**WorldNet**—US	36	11.4910 GHz	[H]	PAL	No	6.65 MHz S/C	25 MHz	75 kHz	△	41 dBW
6	West Spot	**SkyChannel** —UK	27	11.6500 GHz	[H]	PAL	Yes ★	6.65 MHz mono; 7.02/7.20 stereo S/C	16 MHz	50 kHz	50 μs	41 dBW
7	West Spot	**TeleClub** —Switzerland	36	10.99167 GHz	[V]	PAL	No	6.5 MHz S/C	25 MHz	75 kHz	75 μs	41 dBW
8	East Spot	**RTL-Plus** —Luxembourg	t.b.a.									
9	West Spot	**FilmNet/ATN** —Belgium	30	11.1403 GHz	[H]	PAL	No	6.65 MHz S/C	19 MHz	75 kHz	△	41 dBW
10	West Spot	**Sat-1**—Germany	36	11.5070 GHz	[V]	PAL	Yes ▲	Sound-in sync ▲	25 MHz	—	—	41 dBW
12	West Spot	**Music Box**—UK	36	11.6740 GHz	[V]	PAL	No	6.65 mono; 7.02/7.20 stereo S/C	25 MHz	50 kHz	50 μs	41 dBW

EUTELSAT I-F2 (7.0 Degrees E)

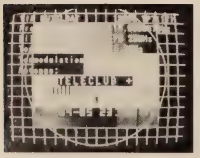
5	West Spot	**SVT-1** —Sweden	—	11.648 GHz	—	—	Yes	—	—	—	—	—
5	West Spot	**SVT-2** —Sweden	—	11.635 GHz	—	—	Yes	—	—	—	—	—
6	West Spot	**NRK TV Norge** —Norway	36	11.6760 GHz	[H]	C-MAC	Yes ♦	—	—	—	—	42 dBW
3	Eurobeam	**Eurovision (EBU)**	36	11.1420 GHz	[H]	PAL	Yes ◊	Sound-in-sync ◊	—	—	—	36 dBW
9	Eurobeam	**Eurovision (EBU)**	36	11.1420 GHz	[V]	PAL	Yes ◊	Sound-in-sync ◊	—	—	—	36 dBW

INTELSAT VA F10 (27.5 Degrees W)

1	West Spot	**Premiere**—UK	30	11.0150 GHz	[H]	PAL	No	6.6 MHz S/C	20 MHz	50 kHz	50 μs	40 dBW
1	West Spot	**The Children's Channel**—UK	30	11.0150 GHz	[H]	PAL	No	6.6 MHz S/C	20 MHz	50 kHz	50 μs	40 dBW
3	West Spot	**Screen Sport**—UK	30	11.1350 GHz	[H]	PAL	No	6.6 MHz S/C	20 MHz	50 kHz	50 μs	40 dBW
4	West Spot	**MirrorVision**—UK	30	11.1750 GHz	[H]	PAL	No	6.6 MHz S/C	20 MHz	50 kHz	50 μs	39 dBW
?	East Spot	**Cable News Network**—US	30	t.b.a.	[V]	PAL						

Video and audio encoded via the C-MAC video standard.
☆ in MHz
♦ Uses the EBU/BBC sound-in-sync encoding system. Video is unencrypted.
Services employing the following scrambling systems have announced plans to discontinue scrambling in the near future.
★ Uses the Oak/Racal video scrambling system. Audio is clear.
▲ Uses the Standard Electric Lorentz (SEL) PCM2 sound-in-sync encoding system. Video is unencrypted.
◊ Uses the RTC Discret video scrambling system. Audio is clear.
△ = CCITT audio standard.
t.b.a. = to be announced.

European Cable Programmers



Eutelsat I-F1 at 13 Degrees East

Tr.#	Service	Uplinking Country	Operating Category
1	**Radio Televisione Italiana (RAI):** The Italian public TV network no. 1.	Italy	News/ Sports/ Variety
2	**3-Sat:** German-language entertainment service features programs from the German ZDF, Austrian ORF, and Swiss SRG TV networks.	W. Germany	News/ Sports/ Variety
3	**Olympus TV:** This pan-European entertainment service provides original program material and feeds from Eurovision and selections from the catalogs of EBU member statios. ♦	Netherlands	News/ Variety
4	**TV-5:** French-language program service offers contributions from the French TF 1, FR3, and Antenna 2 networks as well as programs developed by the Swiss SSR and Belgian RTFB TV services.	France	Variety/ Educational
4	**New World Channel:** A multilingual religious program service.	Norway	Religious
4	**WorldNet:** News, documentaries, and educational programming from the U.S. Information Agency.	US	News
6	**SkyChannel:** English-language family entertainment network provides pop music videos, popular American TV series, sports events, movies, and documentaries.	UK	Music/ Sports/ Variety
7	**Teleclub (Paysat):** Premium movie service operated by Swiss Rediffusion and Taurus/Beta films of Munich.	Switzerland	Movies
8	**Radio-Tele-Luxembourg (RTL+):** Luxembourg German-language public TV channel 7 in Luxembourg features news, entertainment, and American TV serials and films. ♦	Luxembourg	News/ Variety
9	**FilmNet/ATN:** Premium movie service offers first-run films and movie classics from around the globe.	Belgium	Movies
9	**World Public News (WPN)** ♦	Belgium	News
10	**Sat 1:** German cable TV service has variety shows, documentaries, series, and film classics.	W. Germany	Variety
12	**Music Box:** Pop music video entertainment service offers concerts, concert tour guides, music news and interviews, and the latest European charts.	UK	Pop Music

Eutelsat I-F2 at 7 Degrees East

5	**SVT-1:** Swedish TV.	Sweden	----
5	**SVT-2:** Swedish TV.	Sweden	----
6	**NRK TV-Norge:** Norwegian public TV channel originates from Oslo, Norway.	Norway	News/ Sports Variety
3 & 9	**Eurovision:** News, sports and entertainment exchanges between EBU member stations *	EBU	News

Intelsat VA-F10 at 27.5 Degrees West

1W	**Premiere:** British-based premium movie service	UK	Movies
1W	**The Children's Channel:** entertainment and educational programs for children of all ages	UK	Children
3W	**Screen Sport:** British sports, network features professional, collegiate and amateur sporting events from around the world.	UK	Sports
4W	**MirrorVision:** English-language premium movie and entertainment network.	UK	Movies
?E	**Cable News Network (CNN):** Live round-the-clock international news coverage, investigative reporting, sports, weather, interviews, and financial news. Scheduled to start late in 1985. * ▲	US	News

★ UK Summer Time
♦ Services scheduled to be operational by July 1985.
▲ Services scheduled to be operational by September 1985.
* Services available only to EBU member stations.
N/A = not available

Programming Hours ★	Programming Contact	Address	Advertiser-Supported?	Subscription Rate	Cable Subscribers
12:00 – 24:00	Vitorio Bono Telephone: (+39 6) 36861	Direzione Centrale TV Viale Mazzini 14, 00195 Rome, Italy	Yes	Free	N/A
18:00 – 24:00	Dr. Volker V. Hogen Coordinator 3-Sat Telephone: (+49 6131) 701	Postfach 4040 6500 Mainz 1, West Germany	No	Free	N/A
11:00 Tests	Paul Hendrickson Telephone: (+31 35) 779 111	P.O. Box 10, NL-1200 JB Hilversum, The Netherlands	Yes	Free	----
19:00 – 22:30	Jean Rouilly Telephone: (+33 1) 299 41 25	21, rue Jean Goujon 78005 Paris, France	No	Free	2,000,000
11:00 – 12:00 14:00 – 15:00 22:40 – 23:40	Trond Rauoe Vice President of Sales Telephone: (+47 2) 46 28 60	EBN A/S Lybekkergt. 1 0184 Oslo, Norway	No	Free	250,000
12:00 – 14:00	Richard Levy Alvin Snyder Telephone: (202) 376-7806	U.S. Information Agency 301 4th St. SW Washington, D.C. 20547	No	Free	----
14:35 – 00:30	Tony Loggie Director of Sales Telephone: (+44 1) 636 4077	Satellite Television PLC 31-36 Foley St. London W1P 7LB UK	Yes	Free	3,269,212
19:15 – 24:00 M-F; 17:00 – 24:00 Sat-Sun	Pierre Meyrat Telephone: (+41 1) 492-4433	Flueastrasse 7, Postfach CH-8048 Zurich, Switzerland	No	SFr. 28,00	267,545
17:00 – 24:00	Helmut Thoma Director Telephone: (+352) 44 90 41	Villa Louvigny BP 1002 Luxembourg	Yes	Free	----
18:00 – 01:00	Martin Lindskogh Telephone: (+32 20) 06 03 03	Keizersgracht 319 1016 EE Amsterdam, The Netherlands	No	HFl. 30,00	N/A
10:00 – 12:00 14:00 – 18:00	Marc de Cock Telephone: (+32) 50 34 02 12	I.T.S. Ezelstraat 1, 8000 Brugge, Belgium	No	N/A	----
13:30 – 24:00	Jurgen Doetz Telephone: (+49 69) 74 77 66	Friedrich Ebert Anlage 2-14 6000 Frankfort 1, West Germany	Yes	Free	214,000
08:00 – 02:00	Marcus Bicknell Director of Sales Telephone: (+44) 1 580 6611	Central Cross House 2 Stephen St., London W1A 4PL UK	Yes	Free	2,500,000
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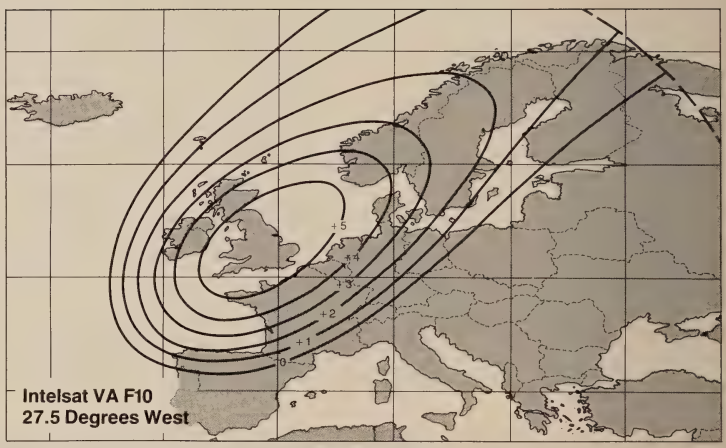
16:55 – 22:00	S. Torjusson Director of Sales Telephone: (+47 02) 459050	Norsk Rikskringkasting TV Oslo 3, Norway	N/A	N/A	N/A
12:00 & 17:00	R. Gressmann Director Telephone: (+32 02) 375 59 90	European Broadcasting Union Technical Center Av. Albert Lancaster, 32 B-1180 Bruxelles, Belgium	----	----	----
16:00 – 02:00 M-F; 15:00 – 03:00 Sat-Sun	Frank Dawson Network Relations Telephone: (+44) 1 580 6611	Galaxy Television Thorne EMI, Central Cross House 2 Stephens St., London W1A 4PL UK	No	£7.50	N/A
07:00 – 15:00	Frank Dawson Network Relations Telephone: (+44) 1 580 6611	Galaxy Television Thorne EMI, Central Cross House 2 Stephens St., London W1A 4PL UK	Yes	Free	120,000
17:00 – 22:50 M-F; 16:00 – 23:00 Sat-Sun	Chris B. Howland Sales Director Telephone: (+44) 1 222 0855	23 Queen Anne's Gate London SW1H 9BU UK	No	N/A	110,000
16:00 – 01:00	Ward Thomas Telephone: (+44) 1 930 7810	United Cable Programmes Ltd. 48 Leicester Square, London WC2H 7LZ UK	No	£7.95	50,000
24 hours	Charles Bonan Managing Director Telephone: (+44) 1 631 5278	Turner Programme Services 66 – 67 Newman Street London WIP 3LA UK	----	----	----

European Cable Services Beam Coverage Maps

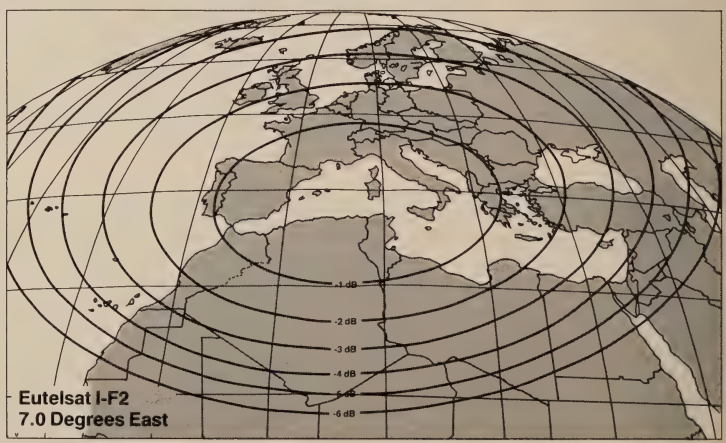
By using the following Ku-band margin-above-threshold chart (table 1) you can determine the right combination of antenna size and low noise block downconverter (LNB) noise figure to achieve a carrier-to-noise ratio (C/N) that is higher than the satellite receiver's threshold. To use the chart, you will need to first determine the effective isotropic radiated power (EIRP) level at your location by referring to the appropriate European Ku-band satellite footprint maps that follow.

Signal attenuation due to rainfall is an important factor that should be taken into consideration. Ku-band reception can be dramatically reduced due to the absorption or scattering of satellite signals as the microwaves pass through rain-filled layers of the atmosphere. Consequently, 11-GHz satellite TV receive terminals must have enough signal margin above the threshold level of the receiver to guarantee continuous, noise-free reception.

The margin level in decibels (dBs) selected by the terminal operator will vary, depending on the location of the receiving terminal and whether the earth station is being used for commercial or private use. Private terminal users may decide to accept a certain level of rain outages and use equipment with a low value of margin, or perhaps no margin at all. Commercial users' receiving terminals should deliver adequate reception even under the worst-case conditions.



The four west spot beam services all have a beam edge EIRP of 40 dBW.

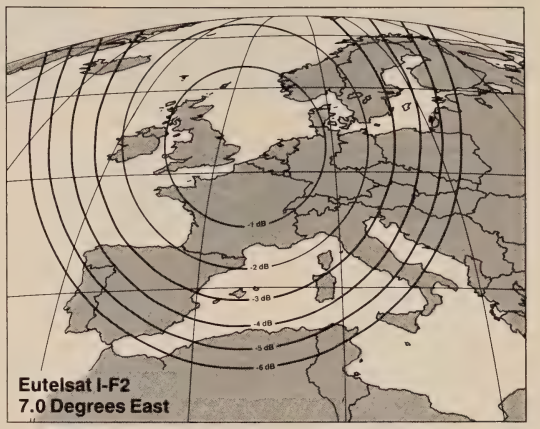


A minimum EIRP of 35 dBW at the -4 dB contour of the Eurobeam is specified for the lifetime of the satellite.

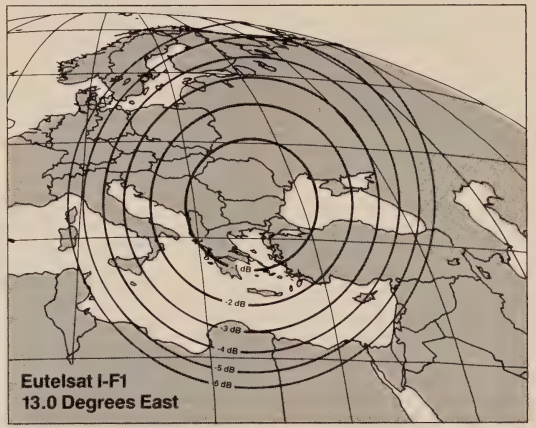
Antenna Size:	4 m 13 feet		4.8 m 16 feet		6 m 20 feet		7.6 m 25 feet		10 m 33 feet	
LNB N.T.:	2.45	3.45	2.45	3.45	2.45	3.45	2.45	3.45	2.45	3.45
LNB N.F.:	220	350	220	350	220	350	220	350	220	350
EIRP Level:										
55 dBW	+23.0	+21.1	+24.8	+22.9	+26.8	+24.8	+28.7	+26.8	+31.3	+29.2
54 dBW	+22.0	+20.1	+23.8	+21.9	+25.8	+23.8	+27.7	+25.8	+30.3	+28.2
53 dBW	+21.0	+19.1	+22.8	+20.9	+24.8	+22.8	+26.7	+24.8	+29.3	+27.2
52 dBW	+20.0	+18.1	+21.8	+19.9	+23.8	+21.8	+25.7	+23.8	+28.3	+26.2
51 dBW	+19.0	+17.1	+20.8	+18.9	+22.8	+20.8	+24.7	+22.8	+27.3	+25.2
50 dBW	+18.0	+16.1	+19.8	+17.9	+21.8	+19.8	+23.7	+21.8	+26.3	+24.2
49 dBW	+17.0	+15.1	+18.8	+16.9	+20.8	+18.8	+22.7	+20.8	+25.3	+23.2
48 dBW	+16.0	+14.1	+17.8	+15.9	+19.8	+17.8	+21.7	+19.8	+24.3	+22.2
47 dBW	+15.0	+13.1	+16.8	+14.9	+18.8	+16.8	+20.7	+18.8	+23.3	+21.2
46 dBW	+14.0	+12.1	+15.8	+13.9	+17.8	+15.8	+19.7	+17.8	+22.3	+20.2
45 dBW	+13.0	+11.1	+14.8	+12.9	+16.8	+14.8	+18.7	+16.8	+21.3	+19.2
44 dBW	+12.0	+10.1	+13.8	+11.9	+15.8	+13.8	+17.7	+15.8	+20.3	+18.2
43 dBW	+11.0	+9.1	+12.8	+10.9	+14.8	+12.8	+16.7	+14.8	+19.3	+17.2
42 dBW	+10.0	+8.1	+11.8	+9.9	+13.8	+11.8	+15.7	+13.8	+18.3	+16.2
41 dBW	+9.0	+7.1	+10.8	+8.9	+12.8	+10.8	+14.7	+12.8	+17.3	+15.2
40 dBW	+8.0	+6.1	+9.8	+7.9	+11.8	+9.8	+13.7	+11.8	+16.3	+14.2
39 dBW	+7.0	+5.1	+8.8	+6.9	+10.8	+8.8	+12.7	+10.8	+15.3	+13.2
38 dBW	+6.0	+4.1	+7.8	+5.9	+9.8	+7.8	+11.7	+9.8	+14.3	+12.2
37 dBW	+5.0	+3.1	+6.8	+4.9	+8.8	+6.8	+10.7	+8.8	+13.3	+11.2
36 dBW	+4.0	+2.1	+5.8	+3.9	+7.8	+5.8	+9.7	+7.8	+12.3	+10.2
35 dBW	+3.0	+1.1	+4.8	+3.8	+6.8	+4.8	+8.7	+6.8	+11.3	+9.2
34 dBW	+2.0	+0.1	+3.8	+2.8	+5.8	+3.8	+7.7	+5.8	+10.3	+8.2
33 dBW	+1.0	-0.9	+2.8	+1.8	+4.8	+2.8	+6.7	+4.8	+9.3	+7.2
32 dBW	0.0	-1.9	+1.8	+0.8	+3.8	+1.8	+5.7	+3.8	+8.3	+6.2
31 dBW	-1.0	-2.9	+0.8	-0.2	+2.8	+0.8	+4.7	+2.8	+7.3	+5.2
30 dBW	-2.0	-3.9	-0.2	-1.2	+1.8	-0.2	+3.7	+1.8	+6.3	+4.2
29 dBW	-3.0	-4.9	1.2	-2.2	+0.8	-1.2	+2.7	+0.8	+5.3	+3.2
28 dBW	-4.0	-5.9	-2.2	-3.2	-0.2	-2.2	+3.7	-0.2	+4.3	+2.2
27 dBW	-5.0	-6.9	-3.2	-4.2	-1.2	-3.2	+2.7	-1.2	+3.3	+1.2
26 dBW	-6.0	-7.9	-4.2	-5.2	-2.2	-4.2	+1.7	-2.2	+2.3	+0.2

Antenna Size:	.6m 2 feet		1.2m 4 feet		1.8m 6 feet		2.4m 8 feet		3m 10 feet	
LNB N.T.:	2.45	3.45	2.45	3.45	2.45	3.45	2.45	3.45	2.45	3.45
LNB N.F.:	220	350	220	350	220	350	220	350	220	350
EIRP Level:										
55 dBW	+6.7	+4.9	+12.7	+10.9	+16.3	+14.4	+18.8	+16.9	+20.7	+18.8
54 dBW	+5.7	+3.9	+11.7	+9.9	+15.3	+13.4	+17.8	+15.9	+19.7	+17.8
53 dBW	+4.7	+2.9	+10.7	+8.9	+14.3	+12.4	+16.8	+14.9	+18.7	+16.8
52 dBW	+3.7	+1.9	+9.7	+7.9	+13.3	+11.4	+15.8	+13.9	+17.7	+15.8
51 dBW	+2.7	+0.9	+8.7	+6.9	+12.3	+10.4	+14.8	+12.9	+16.7	+14.8
50 dBW	+1.7	-0.1	+7.7	+5.9	+11.3	+9.4	+13.8	+11.9	+15.7	+13.8
49 dBW	+0.7	-1.1	+6.7	+4.9	+10.3	+8.4	+12.8	+10.9	+14.7	+12.8
48 dBW	-0.3	-2.1	+5.7	+3.9	+9.3	+7.4	+11.8	+9.9	+13.7	+11.8
47 dBW	-1.3	-3.1	+4.7	+2.9	+8.3	+6.4	+10.8	+8.9	+12.7	+10.8
46 dBW	-2.3	-4.1	+3.7	+1.9	+7.3	+5.4	+9.8	+7.9	+11.7	+9.8
45 dBW	-3.3	-5.1	+2.7	+0.9	+6.3	+4.4	+8.8	+6.9	+10.7	+8.8
44 dBW	-4.3	-6.1	+1.7	-0.1	+5.3	+3.4	+7.8	+5.9	+9.7	+7.8
43 dBW	-5.3	-7.1	+0.7	-1.1	+4.3	+2.4	+6.8	+4.9	+8.7	+6.8
42 dBW	-6.3		-0.3	-2.1	+3.3	+1.4	+5.8	+4.8	+7.7	+5.8
41 dBW	-7.3		-1.3	-3.1	+2.3	+0.4	+4.8	+3.8	+6.7	+4.8
40 dBW			-2.3	-4.1	+1.3	-0.6	+3.8	+2.8	+5.7	+3.8
39 dBW			-3.3	-5.1	+0.3	-1.6	+2.8	+1.8	+4.7	+2.8
38 dBW			-4.3	-6.1	-0.7	-2.6	+1.8	+0.8	+3.7	+1.8
37 dBW			-5.3	-7.1	-1.7	-3.6	+0.8	-0.2	+2.7	+0.8
36 dBW			-6.3		-2.7	-4.6	-0.2	-1.2	+1.7	-0.2
35 dBW			-7.3		-3.7	-5.6	-1.2	-2.2	+0.7	-1.8
34 dBW					-4.7	-6.6	-2.2	-3.2	-0.3	-2.8
33 dBW					-5.7	-7.6	-3.2	-4.2	-1.3	-3.8
32 dBW					-6.7		-4.2	-5.2	-2.3	-4.8
31 dBW					-7.7		-5.2	-6.2	-3.3	-5.8
30 dBW							-6.2	-7.2	-4.3	-6.8

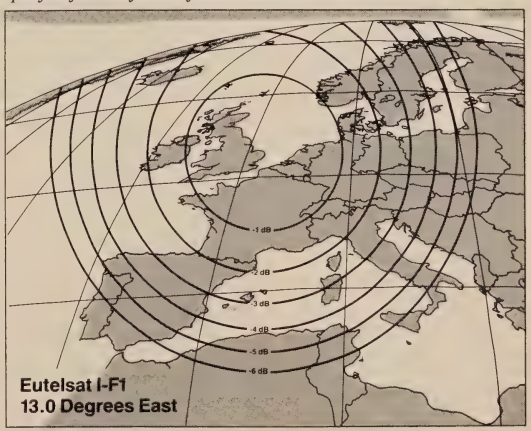
Table 1. Ku-band Margin-above-threshold Chart



A minimum EIRP of 41 dBW at the -4 dB contour of the west spot beam is specified for the lifetime of the satellite.

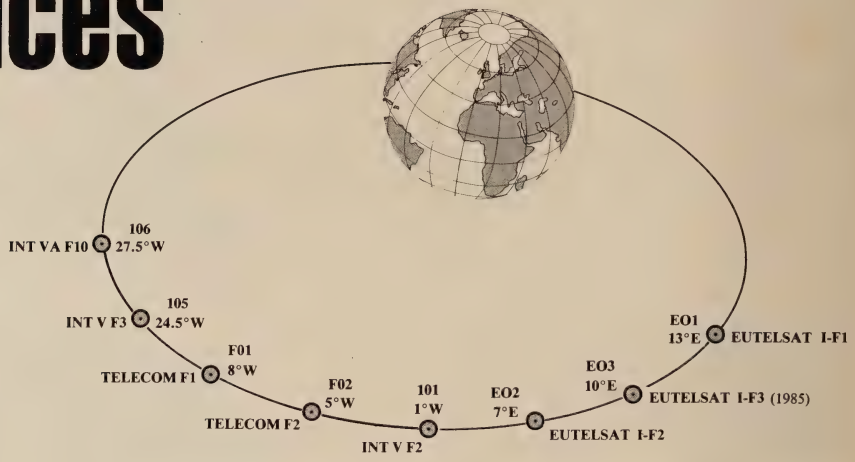


A minimum EIRP of 41 dBW at the -4 dB contour of the east spot beam is specified for the lifetime of the satelllite.



A minimum EIRP of 41 dBW at the -4 dB contour of the west spot beam is specified for the lifetime of the satellite.

European Cable Services



I = INTELSAT (INT)
E = EUTELSAT
F = TELECOM (FRANCE)

The following Ku-band satellite program guide represents a typical satellite TV schedule for 10 European cable and broadcast TV services. While *Satellite World* makes every attempt to keep the program listings as current as possible, the reader should be aware that some television networks may realign their programming schedules by inserting sports events, specials, miniseries, or new programs, often without prior notice.

Programming times are listed in GMT; each program day begins at 0000 hours.

Ten European 11-GHz satellite TV services are listed in this month's European Ku-band Satellite TV Guide. Additional program schedules for other European cable and broadcast TV channels will be added in the months ahead.

ID. NO.	SATELLITE	TR. #	BEAM	SERVICE
I06	Int. VA F10	1 W	West Spot	The Children's Channel
I06	Int. VA F10	3 W	West Spot	Screen Sport
I05	Int. V F3	7 E	East Spot	WorldNet (U.S.)
E02	Eutelsat I-F2	9	Eurobeam	European Broadcast Union (EBU) Eurovision News
E01	Eutelsat I-F1	2	East Spot	3-Sat (Germany)
E01	Eutelsat I-F1	4	West Spot	TV-5 (France)
E01	Eutelsat I-F1	4	West Spot	New World Channel (Norway)
E01	Eutelsat I-F1	4	West Spot	WorldNet (U.S.)
E01	Eutelsat I-F1	6	West Spot	MirrorVision (U.K.)
E01	Eutelsat I-F1	10	West Spot	Sat-1 (Germany)
E01	Eutelsat I-F1	12	West Spot	Music Box (U.K.)

SUNDAY

0000 GMT

E01 10 /13.0°E Nachrichten: Late news.
E01 2 /13.0°E 3 SAT - Nachrichten

0010 GMT

E01 10 /13.0°E Spielfilm: Feature film.

0145 GMT

E01 10 /13.0°E Close

0600 GMT

E01 12 /13.0°E Gaz Bag: Gaz hosts.
E01 4 /13.0°E Jimmy Swaggart: Evangelical program in French.

0700 GMT

E01 12 /13.0°E First Sight: The latest videos on Music Box.
E01 4 /13.0°E Robert Schuller: Evangelical program.
I06 1 /27.5°W Cartoon Time

0800 GMT

E01 12 /13.0°E Sunie and Gary
E01 4 /13.0°E Praise the Lord: Evangelical program with Paul Crouch.
I06 1 /27.5°W Drama Double Bill: Dramatic entertainment.

0900 GMT

E01 12 /13.0°E 60 Minute Mix: Martin hosts.
I06 1 /27.5°W Quiz Olympics

1000 GMT

E01 12 /13.0°E The Special OR Diana - Sounds Alive
E01 4 /13.0°E Praise the Lord: Evangelical program with Jim Bakker.

1100 GMT

E01 12 /13.0°E Hear and Now: Julie hosts.
E01 4 /13.0°E New World Forum: Evangelical program mainly in English with Hans Bratterud.
E01 6 /13.0°E SPORTS-American Football: Some of the best matches from last season's USFL.
I06 1 /27.5°W Cartoon Time

1200 GMT

E01 10 /13.0°E Sonntagsmagazin: Magazine or film.
E01 12 /13.0°E Gaz Bag: Gaz hosts.
E01 4 /13.0°E America Today
I05 7 /24.5°W America Today
I06 1 /27.5°W Drama Double Bill: Dramatic entertainment.

1230 GMT

E01 4 /13.0°E Documentary or Educational TV program
E01 6 /13.0°E SPORTS-Davis Cup Tennis
I05 7 /24.5°W Documentary or Educational TV program

1300 GMT

E01 10 /13.0°E Unterhaltungsserie: Light entertainment.
E01 12 /13.0°E First Sight: The latest videos on Music Box.
E01 4 /13.0°E Documentary or Educational TV program

EUROPEAN CABLE PROGRAMMING

All times are Greenwich Meridian time

I05 7 /24.5°W Documentary or Educational TV Program
I06 1 /27.5°W Quiz Olympics

1325 GMT

E01 6 /13.0°E Cartoons

1330 GMT

E01 10 /13.0°E Solid Gold: Pop video.
E01 4 /13.0°E ABC World News Tonight (From previous evening).
E01 6 /13.0°E The Human Face of Japan: Documentary series.
I05 7 /24.5°W ABC World News Tonight (From previous evening).

1400 GMT

E01 10 /13.0°E Familienserie: Family serial.
E01 12 /13.0°E Sunie and Gary
E01 6 /13.0°E Sky Trax: Pop music show.

1445 GMT

E01 6 /13.0°E Sky Trax: Pop music show.

1500 GMT

E01 10 /13.0°E Kinder-und Familiensendung: Mixed entertainment.
E01 12 /13.0°E 60 Minute Mix: Martin hosts.
I06 1 /27.5°W Close

1530 GMT

E01 10 /13.0°E Musicbox: Pop video.
E01 6 /13.0°E Sky Trax: Pop music show.

1600 GMT

E01 12 /13.0°E The Special OR Diana - Sounds Alive
E01 4 /13.0°E Antennae-2 news-feed from Paris to TV3-Catalunya

1630 GMT

E01 10 /13.0°E Zeichentrickfilme: Cartoon.
E01 6 /13.0°E Inspector Gadget: Cartoon series.

1700 GMT

E01 10 /13.0°E Serien: Film series.
E01 12 /13.0°E Hear and Now: Julie hosts.
E01 6 /13.0°E Fantasy Island: Fantasy, adventure series.
I06 3 /27.5°W SPORTS-News and Today's Timetable

1710 GMT

I06 3 /27.5°W SPORTS-The Main Event

1750 GMT

E01 6 /13.0°E Family Theatre: Drama series.

1800 GMT

E01 10 /13.0°E Regionales Fenster: Regional news.
E01 12 /13.0°E Gaz Bag: Gaz hosts.
E01 2 /13.0°E Unterhaltung
E01 4 /13.0°E Thirty Million Friends: Animal magazine

1830 GMT

E01 10 /13.0°E Aktuelles Quiz: National news.

E01 4 /13.0°E Movie (Telefilm)

1840 GMT

E01 6 /13.0°E Film

1845 GMT

E01 10 /13.0°E Spielfilm: Feature film.

1900 GMT

E01 12 /13.0°E First Sight: The latest videos on Music Box.
E01 2 /13.0°E Heute

1915 GMT

E01 2 /13.0°E Sonntagskino

2000 GMT

E01 12 /13.0°E Sunie and Gary
E01 4 /13.0°E Ideas and Men: Documentary series.

2020 GMT

E01 6 /13.0°E Bhutan-Land of the Dragon: Documentary series.

2030 GMT

E01 10 /13.0°E Filmserie: Film series.

2050 GMT

E01 6 /13.0°E Sky Trax: Pop music show.

2100 GMT

E01 10 /13.0°E Bunte-Rendezvous: Magazine program.
E01 12 /13.0°E 60 Minute Mix: Martin hosts.
E01 2 /13.0°E Erinnem Sie Sich
E01 4 /13.0°E The News (Journal Televise)

2130 GMT

E01 10 /13.0°E News, Freizeit, Sport: News, Arts and Sports.

2200 GMT

E01 12 /13.0°E The Special OR Diana - Sounds Alive

2215 GMT

E01 10 /13.0°E Spielfilm: Feature film.
E01 2 /13.0°E Sonderangebot

2230 GMT

E01 6 /13.0°E Close

2250 GMT

I06 3 /27.5°W SPORTS-Close-down News

2300 GMT

E01 12 /13.0°E Hear and Now: Julie hosts.

2315 GMT

E01 2 /13.0°E 3 SAT - Nachrichten

MONDAY

0000 GMT

E01 10 /13.0°E Nachrichten: Late news.

0010 GMT

E01 10 /13.0°E Close

0600 GMT

E01 12 /13.0°E Sounds and Vision: Gary hosts.

0700 GMT

E01 12 /13.0°E Hear and Now: Julie hosts.
I06 1 /27.5°W The Early Show

0800 GMT

E01 12 /13.0°E Videopix: Video request show.

0900 GMT

E01 12 /13.0°E Gaz Bag: Gaz hosts.
I06 1 /27.5°W Jack-in-the-Box: Stories and other activities for children under five years old.

1000 GMT

E01 12 /13.0°E Sunie - Hits the Screen
E01 4 /13.0°E Praise the Lord: Evangelical program with Jim Bakker.

1100 GMT

E01 12 /13.0°E Diana - Sounds Alive
E01 4 /13.0°E Antennae-2 News-feed from Paris to TV3-Catalunya
E02 9 /10.0°E Eurovision Brussels: European News Unilateral Exchanges.
I06 1 /27.5°W The Early Show

1200 GMT

E01 12 /13.0°E Sounds and Vision: Gary hosts.
E01 4 /13.0°E America Today
I05 7 /24.5°W America Today

1230 GMT

E01 4 /13.0°E Documentary or Educational TV program
I05 7 /24.5°W Documentary or Educational TV Program

1235 GMT

E01 6 /13.0°E Movin' On: Action, adventure series.

1300 GMT

E01 12 /13.0°E Hear and Now: Julie hosts.
E01 4 /13.0°E Documentary or Educational TV program
I05 7 /24.5°W Documentary or Educational TV program
I06 1 /27.5°W Jack-in-the-Box: Stories and other activities for children under five years old.

1330 GMT

E01 10 /13.0°E Solid Gold: Pop video.
E01 4 /13.0°E ABC World News Tonight (From previous evening).
E01 6 /13.0°E Swiss Family Robinson: Family, adventure series.
I05 7 /24.5°W ABC World News Tonight (From previous evening).

1400 GMT

E01 10 /13.0°E Familienserie: Family serial.
E01 12 /13.0°E Videopix: Video request show.
E01 6 /13.0°E Sky Trax: Pop music show.

1445 GMT

E01 6 /13.0°E Sky Trax: Pop music show.

1500 GMT

E01 10 /13.0°E Kindersendung: Children's programming.
E01 12 /13.0°E Gaz Bag: Gaz hosts.
I06 1 /27.5°W Close

1530 GMT

E01 10 /13.0°E Musicbox: Pop video.
E01 6 /13.0°E Sky Trax: Pop music show.

1600 GMT

E01 12 /13.0°E Sunie - Hits the Screen
E01 4 /13.0°E Antennae-2 News-feed from Paris to TV3-Catalunya
E02 9 /10.0°E Eurovision Brussels: European News Unilateral Exchanges.

1630 GMT

E01 10 /13.0°E Zeichentrickfilme: Cartoon.
E01 6 /13.0°E Mr. Ed: Comedy series.

1700 GMT

E01 10 /13.0°E Serien: Western series.
E01 12 /13.0°E Diana - Sounds Alive
E01 6 /13.0°E The Lucy Show: Comedy series.
I06 3 /27.5°W SPORTS-News and Today's Timetable

1710 GMT

I06 3 /27.5°W SPORTS-The First Half

1730 GMT

E01 10 /13.0°E Regionales Fenster: Regional news.
E01 6 /13.0°E Barbara Mandrell and the Mandrell Sisters: Music special.

1800 GMT

E01 12 /13.0°E Sounds and Vision: Gary hosts.
E01 2 /13.0°E Kinder
E01 4 /13.0°E Champs-Elysees: Variety show.

1820 GMT

E01 6 /13.0°E Vega$: Action, adventure series.

1830 GMT

E01 10 /13.0°E Aktuelles Quiz: National news.

1845 GMT

E01 10 /13.0°E Krimi Western: Film series.

1900 GMT

E01 12 /13.0°E Hear and Now: Julie hosts.
E01 2 /13.0°E Heute

1910 GMT

E01 4 /13.0°E The Enemy of Death: Series.
E01 6 /13.0°E The Untouchables: Crime series.

1930 GMT

E01 2 /13.0°E Sport report
I06 3 /27.5°W SPORTS-The Mid-Evening News

EUROPEAN CABLE PROGRAMMING

All times are Greenwich Meridian time

1940 GMT

I06 3 /27.5°W SPORTS-The Main Event

2000 GMT

E01 12 /13.0°E Videopix: Video request show.

2005 GMT

E01 4 /13.0°E Adventure Notebook (Les Carnets de L'Aventure): Magazine.
E01 6 /13.0°E SPORTS-VFL Australian Rules Football

2030 GMT

E01 10 /13.0°E Wirtschaftsmagazin: Economy magazine.

2100 GMT

E01 10 /13.0°E Familienserie: Family serial.
E01 12 /13.0°E Gaz Bag: Gaz hosts.
E01 4 /13.0°E The News (Journal Televise)
E01 6 /13.0°E Sky Trax: Pop music show.

2115 GMT

E01 2 /13.0°E Zeit im Bild

2130 GMT

E01 10 /13.0°E News, Freizeit, Sport: News, Arts and Sports.

2140 GMT

E01 4 /13.0°E The Hour of Power: With Robert Schuller.

2145 GMT

E01 2 /13.0°E Cinema International

2200 GMT

E01 12 /13.0°E Sunie - Hits the Screen

2205 GMT

E01 6 /13.0°E Close

2215 GMT

E01 10 /13.0°E Spielfilm: Feature film.

2250 GMT

I06 3 /27.5°W SPORTS-Close-down News

2300 GMT

E01 12 /13.0°E Diana - Sounds Alive

2305 GMT

E01 2 /13.0°E Kennwort: Kino

2330 GMT

E01 2 /13.0°E 3 SAT - Nachrichten

TUESDAY

0000 GMT

E01 10 /13.0°E Nachrichten: Late news.

0010 GMT

E01 10 /13.0°E Close

0600 GMT

E01 12 /13.0°E Sit Tight: Simon brings you the Fan Club Spot plus the Record Round Up with all the latest releases on vinyl for the week.

0700 GMT

E01 12 /13.0°E Sunie - Hits the Screen
I06 1 /27.5°W The Early Show

0800 GMT

E01 12 /13.0°E Sound and Vision: Gary hosts.

0900 GMT

E01 12 /13.0°E The Eurochart: All the latest hits from the charts of 16 European countries.
I06 1 /27.5°W Jack-in-the-Box: Stories and other activities for children under five years old.

1000 GMT

E01 12 /13.0°E Diana - Sounds Alive
E01 4 /13.0°E Praise the Lord: Evangelical program with Jim Bakker.

1100 GMT

E01 12 /13.0°E 60 Minute Mix: Martin hosts.
E02 9 /10.0°E Eurovision Brussels: European News Unilateral Exchanges.
I06 1 /27.5°W The Early Show

1200 GMT

E01 12 /13.0°E Sit Tight: Simon brings you the Fan Club Spot plus the Record Round Up with all the latest releases on vinyl for the week.
E01 4 /13.0°E America Today
I05 7 /24.5°W America Today

1230 GMT

E01 4 /13.0°E Documentary or Educational TV program
I05 7 /24.5°W Documentary or Educational TV program

1235 GMT

E01 6 /13.0°E Movin' On: Action, adventure series.

1300 GMT

E01 12 /13.0°E Sunie - Hits the Screen
E01 4 /13.0°E Documentary or Educational TV program
I05 7 /24.5°W Documentary or Educational TV program
I06 1 /27.5°W Jack-in-the-Box: Stories and other activities for children under five years old.

1330 GMT

E01 10 /13.0°E Solid Gold: Pop video.
E01 4 /13.0°E ABC World News Tonight (From previous evening).
E01 6 /13.0°E Swiss Family Robinson: Family, adventure series.
I05 7 /24.5°W ABC World News Tonight (From previous evening).

1400 GMT

E01 10 /13.0°E Familienserie: Family serial.
E01 12 /13.0°E Sound and Vision: Gary hosts.
E01 6 /13.0°E Sky Trax: Pop music show.

1445 GMT

E01 6 /13.0°E Sky Trax: Pop music show.

1500 GMT

E01 10 /13.0°E Kindersendung: Children's programming.
E01 12 /13.0°E The Eurochart: All the latest hits from the charts of 16 European countries.
I06 1 /27.5°W Close

1530 GMT

E01 10 /13.0°E Musicbox: Pop video.
E01 6 /13.0°E Sky Trax: Pop music show.

1600 GMT

E01 12 /13.0°E Diana - Sounds Alive
E02 9 /10.0°E Eurovision Brussels: European News Unilateral Exchanges.

1630 GMT

E01 10 /13.0°E Zeichentrickfilme: Cartoon.
E01 6 /13.0°E Mr. Ed: Comedy series.

1700 GMT

E01 10 /13.0°E Serien: Western series.
E01 12 /13.0°E 60 Minute Mix: Martin hosts.
E01 6 /13.0°E The Lucy Show: Comedy series.
I06 3 /27.5°W SPORTS-News and Today's Timetable

1710 GMT

I06 3 /27.5°W SPORTS-The First Half

1730 GMT

E01 6 /13.0°E Charlie's Angels: Action, adventure series.

1800 GMT

E01 10 /13.0°E Regionales Fenster: Regional news.
E01 12 /13.0°E Sit Tight: Simon brings you the Fan Club Spot plus the Record Round Up with all the latest releases on vinyl for the week.
E01 2 /13.0°E Bilder Aus Der

1820 GMT

E01 6 /13.0°E Skyways: Drama series.

1830 GMT

E01 10 /13.0°E Aktuelles Quiz: National news.

1845 GMT

E01 10 /13.0°E Spielfilm: Film series.

1900 GMT

E01 12 /13.0°E Sunie - Hits the Screen
E01 2 /13.0°E Heute

1910 GMT

E01 6 /13.0°E Roving Report: Current affairs series.

1930 GMT

E01 2 /13.0°E Menschen und Machte
I06 3 /27.5°W SPORTS-The Mid-Evening News

1940 GMT

E01 6 /13.0°E SPORTS-American College Basketball
I06 3 /27.5°W SPORTS-The Main Event

2000 GMT

E01 12 /13.0°E Sound and Vision: Gary hosts.

2030 GMT

E01 10 /13.0°E Kulturmagazin, Unterhaltung: Arts and entertainment program.
E01 2 /13.0°E Familienserie

2040 GMT

E01 6 /13.0°E Sky Trax: Pop music show.

2100 GMT

E01 12 /13.0°E The Eurochart: All the latest hits from the charts of 16 European countries.
E01 4 /13.0°E The News (Journal Televise)

2115 GMT

E01 2 /13.0°E Zeit im Bild

2130 GMT

E01 10 /13.0°E News, Freizeit, Sport: News, Arts and Sports.

2145 GMT

E01 2 /13.0°E Club 2

2200 GMT

E01 12 /13.0°E Diana - Sounds Alive

2215 GMT

E01 10 /13.0°E Spielfilm: Feature film.

2230 GMT

E01 6 /13.0°E Close

2250 GMT

I06 3 /27.5°W SPORTS-Close-down News

2300 GMT

E01 12 /13.0°E 60 Minute Mix: Martin hosts.

2310 GMT

E01 2 /13.0°E 3 SAT - Nachrichten

WEDNESDAY

0000 GMT

E01 10 /13.0°E Nachrichten: Late news.

0010 GMT

E01 10 /13.0°E Close

0700 GMT

E01 12 /13.0°E Sit Tight: Featuring Simon Potter Down Under'- the Australian section playing the latest musical talent to emerge from the Antipodes.
I06 1 /27.5°W The Early Show

0800 GMT

E01 12 /13.0°E Diana - Sounds Alive

0900 GMT

E01 12 /13.0°E A-Z of Pop: Favourites from artists with the same initial letter.

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All times are Greenwich Meridian time

I06 1 /27.5°W Jack-in-the-Box: Stories and other activities for children under five years old.

1000 GMT

E01 12 /13.0°E Chart Attack: Music Box UK Top 40 hits.

1100 GMT

E01 12 /13.0°E Gaz Bag: Gaz hosts.
E01 4 /13.0°E Antennae-2 Newsfeed from Paris to TV3-Catalunya
E02 9 /10.0°E Eurovision Brussels: European News Unilateral Exchanges.
I06 1 /27.5°W The Early Show

1200 GMT

E01 12 /13.0°E Hear and Now: Julie hosts.
E01 4 /13.0°E America Today
I05 7 /24.5°W America Today

1230 GMT

E01 4 /13.0°E Documentary or Educational TV program
I05 7 /24.5°W Documentary or Educational TV program

1235 GMT

E01 6 /13.0°E Movin' On: Action, adventure series.

1300 GMT

E01 12 /13.0°E Sit Tight: Featuring Simon Potter Down Under'- the Australian section playing the latest musical talent to emerge from the Antipodes.
E01 4 /13.0°E Documentary or Educational TV program
I05 7 /24.5°W Documentary or Educational TV program
I06 1 /27.5°W Jack-in-the-Box: Stories and other activities for children under five years old.

1330 GMT

E01 10 /13.0°E Solid Gold: Pop video.
E01 4 /13.0°E ABC World News Tonight (From previous evening).
E01 6 /13.0°E Swiss Family Robinson: Family, adventure series.
I05 7 /24.5°W ABC World News Tonight (From previous evening).

1400 GMT

E01 10 /13.0°E Familienserie: Family serial.
E01 12 /13.0°E Diana - Sounds Alive
E01 6 /13.0°E Sky Trax: Pop music show.

1445 GMT

E01 6 /13.0°E Sky Trax: Pop music show.

1500 GMT

E01 10 /13.0°E Fur Grob und Klein: Children's programming.
E01 12 /13.0°E A-Z of Pop: Favourites from artists with the same initial letter.
I06 1 /27.5°W Close

1530 GMT

E01 10 /13.0°E Musicbox: Pop video.

E01 6 /13.0°E Sky Trax: Pop music show.

1600 GMT

E01 12 /13.0°E Chart Attack: Music Box UK Top 40 hits.
E01 4 /13.0°E Antennae-2 newsfeed from Paris to TV3-Catalunya
E02 9 /10.0°E Eurovision Brussels: European News Unilateral Exchanges.

1630 GMT

E01 10 /13.0°E Zeichentrickfilme: Cartoon.
E01 6 /13.0°E Mr. Ed: Comedy series.

1700 GMT

E01 10 /13.0°E Serien: Western series.
E01 12 /13.0°E Gaz Bag: Gaz hosts.
E01 6 /13.0°E The Lucy Show: Comedy series.
I06 3 /27.5°W SPORTS-News and Today's Timetable

1710 GMT

I06 3 /27.5°W SPORTS-Crowdaround: Screen Sport's look ahead to the week in sports.

1725 GMT

I06 3 /27.5°W SPORTS-The First Half

1730 GMT

E01 6 /13.0°E Pathfinders: Drama series.

1800 GMT

E01 10 /13.0°E Regionales Fenster: Regional news.
E01 12 /13.0°E Hear and Now: Julie hosts.
E01 2 /13.0°E Kinder
E01 4 /13.0°E The Good Life: Variety show.

1825 GMT

E01 6 /13.0°E Film

1830 GMT

E01 10 /13.0°E Aktuelles Quiz: National news.

1845 GMT

E01 10 /13.0°E Quiz

1900 GMT

E01 12 /13.0°E Sit Tight: Featuring Simon Potter Down Under'- the Australian section playing the latest musical talent to emerge from the Antipodes.
E01 2 /13.0°E Heute
E01 4 /13.0°E Coffee Break: Series.

1910 GMT

E01 10 /13.0°E Sport

1925 GMT

E01 4 /13.0°E History News: Magazine.

1930 GMT

E01 2 /13.0°E Unterhaltung
I06 3 /27.5°W SPORTS-The Mid-Evening News

1940 GMT

I06 3 /27.5°W SPORTS-The Main Event

1950 GMT

E01 6 /13.0°E SPORTS-International Motor Sports

2000 GMT

E01 10 /13.0°E Offen gesagt, Telekiosk: "Frankly Speaking".
E01 12 /13.0°E Diana - Sounds Alive

2030 GMT

E01 10 /13.0°E Familienserie: Love Boat (Family series).

2055 GMT

E01 6 /13.0°E Sky Trax: Pop music show.

2100 GMT

E01 12 /13.0°E A-Z of Pop: Favourites from artists with the same initial letter.
E01 4 /13.0°E The News (Journal Televise)

2130 GMT

E01 10 /13.0°E News, Freizeit, Sport: News, Arts and Sports.

2200 GMT

E01 12 /13.0°E Chart Attack: Music Box UK Top 40 hits.

2215 GMT

E01 10 /13.0°E Spielfilm: Feature film.

2230 GMT

E01 6 /13.0°E Close

2235 GMT

I06 3 /27.5°W SPORTS-Crowdaround: Screen Sport's look ahead to the week in sports.

2250 GMT

I06 3 /27.5°W SPORTS-Close-down News

2300 GMT

E01 12 /13.0°E Gaz Bag: Gaz hosts.

2330 GMT

E01 12 /13.0°E Hear and Now: Julie hosts.

THURSDAY

0000 GMT

E01 10 /13.0°E Nachrichten: Late news.

0010 GMT

E01 10 /13.0°E Close

0600 GMT

E01 12 /13.0°E Hear and Now: Julie hosts.

0700 GMT

E01 12 /13.0°E Simon and Gary or Martin and Gary
I06 1 /27.5°W The Early Show

0800 GMT

E01 12 /13.0°E Euro Tour Guide: Who's touring where and when OR Sunie - Hits the Screen.

0900 GMT

E01 12 /13.0°E Diana - Sounds Alive
I06 1 /27.5°W Jack-in-the-Box: Stories and other activities for children under five years old.

1000 GMT

E01 12 /13.0°E Musical Chains: Show demonstrating how almost every video ever made is linked to another in some way.
E01 4 /13.0°E Praise the Lord: Evangelical program with Jim Bakker.

1100 GMT

E01 12 /13.0°E 60 Minute Mix: Martin hosts.
E01 4 /13.0°E Antennae-2 Newsfeed from Paris to TV3-Catalunya
E02 9 /10.0°E Eurovision Brussels: European News Unilateral Exchanges.
I06 1 /27.5°W The Early Show

1200 GMT

E01 12 /13.0°E Hear and Now: Julie hosts.
E01 4 /13.0°E America Today
I05 7 /24.5°W America Today

1230 GMT

E01 4 /13.0°E Documentary or Educational TV program
I05 7 /24.5°W Documentary or Educational TV program

1235 GMT

E01 6 /13.0°E Movin' On: Action, adventure series.

1300 GMT

E01 12 /13.0°E Simon and Gary or Martin and Gary
E01 4 /13.0°E Documentary or Educational TV program
I05 7 /24.5°W Documentary or Educational TV program
I06 1 /27.5°W Jack-in-the-Box: Stories and other activities for children under five years old.

1330 GMT

E01 10 /13.0°E Solid Gold: Pop video.
E01 4 /13.0°E ABC World News Tonight (From previous evening).
E01 6 /13.0°E Swiss Family Robinson: Family, adventure series.
I05 7 /24.5°W ABC World News Tonight (From previous evening).

1400 GMT

E01 10 /13.0°E Familienserie: Family serial.
E01 12 /13.0°E Euro Tour Guide: Who's touring where and when OR Sunie - Hits the Screen.
E01 6 /13.0°E Sky Trax: Pop music show.

1445 GMT

E01 6 /13.0°E Sky Trax: Pop music show.

1500 GMT

E01 10 /13.0°E Fur Kinder und Jugendliche: Children's

EUROPEAN CABLE PROGRAMMING

All times are Greenwich Meridian time

programming.
E01 12 /13.0°E Diana - Sounds Alive
I06 1 /27.5°W Close

1530 GMT

E01 10 /13.0°E Musicbox: Pop video.
E01 6 /13.0°E Sky Trax: Pop music show.

1600 GMT

E01 12 /13.0°E Musical Chains: Show demonstrating how almost every video ever made is linked to another in some way.
E01 4 /13.0°E Antennae-2 Newsfeed from Paris to TV3-Catalunya
E02 9 /10.0°E Eurovision Brussels: European News Unilateral Exchanges.

1630 GMT

E01 10 /13.0°E Zeichentrickfilme: Cartoon.
E01 6 /13.0°E Mr. Ed: Comedy series.

1700 GMT

E01 10 /13.0°E Serien: Western series.
E01 12 /13.0°E 60 Minute Mix: Martin hosts.
E01 6 /13.0°E The Lucy Show: Comedy series.
I06 3 /27.5°W SPORTS-News and Today's Timetable

1710 GMT

I06 3 /27.5°W SPORTS-The First Half

1730 GMT

E01 6 /13.0°E Charlie's Angels: Action, adventure series.

1800 GMT

E01 10 /13.0°E Regionales Fenster: Regional news.
E01 12 /13.0°E Hear and Now: Julie hosts.

1820 GMT

E01 6 /13.0°E Skyways: Drama series.

1830 GMT

E01 10 /13.0°E Aktuelles Quiz: National news.

1845 GMT

E01 10 /13.0°E Spielfilm: Film series.
E01 4 /13.0°E Sido and Remi: For the young.

1900 GMT

E01 12 /13.0°E Simon and Gary OR Martin and Gary
E01 2 /13.0°E Heute
E01 4 /13.0°E Movie (Telefilm)

1910 GMT

E01 6 /13.0°E The Untouchables: Crime series.

1930 GMT

E01 2 /13.0°E Krimi
I06 3 /27.5°W SPORTS-The Mid-Evening News

1940 GMT

I06 3 /27.5°W SPORTS-The Main Event

2000 GMT

E01 12 /13.0°E Euro Tour Guide: Who's touring where and when OR Sunie - Hits the Screen.

2005 GMT

E01 6 /13.0°E SPORTS-All Star Wrestling

2030 GMT

E01 10 /13.0°E Familienserie: Family serial.
E01 2 /13.0°E Wissenschaftl u. bildende

2035 GMT

E01 4 /13.0°E Recipes: With chef, Michel Oliver

2100 GMT

E01 12 /13.0°E Diana - Sounds Alive
E01 4 /13.0°E The News (Journal Televise)
E01 6 /13.0°E Sky Trax: Pop music show.

2115 GMT

E01 2 /13.0°E Zeit im Bild

2130 GMT

E01 10 /13.0°E News, Freizeit, Sport: News, Arts and Sports.

2145 GMT

E01 2 /13.0°E Rundschau

2200 GMT

E01 12 /13.0°E Musical Chains: Show demonstrating how almost every video ever made is linked to another in some way.

2205 GMT

E01 6 /13.0°E Close

2215 GMT

E01 10 /13.0°E Spielfilm: Feature film.

2230 GMT

E01 2 /13.0°E Kulturpalette

2250 GMT

I06 3 /27.5°W SPORTS-Close-down News

2300 GMT

E01 12 /13.0°E 60 Minute Mix: Martin hosts.

2330 GMT

E01 2 /13.0°E 3 SAT - Nachrichten

FRIDAY

0000 GMT

E01 10 /13.0°E Nachrichten: Late news.

0010 GMT

E01 10 /13.0°E Close

0600 GMT

E01 12 /13.0°E Julie and Diana

0700 GMT

E01 12 /13.0°E 60 Minute Mix: Martin hosts.
I06 1 /27.5°W The Early Show

0800 GMT

E01 12 /13.0°E Between the Lines: Sunie takes a lighthearted look at the out-pourings of the music press and checks out the news, reviews, interviews and gossip.

0900 GMT

E01 12 /13.0°E Gaz Bag: Gaz hosts.
I06 1 /27.5°W Jack-in-the-Box: Stories and other activities for children under five years old.

1000 GMT

E01 12 /13.0°E First Sight: The latest videos on Music Box.
E01 4 /13.0°E Praise the Lord: Evangelical program with Jim Bakker.

1100 GMT

E01 12 /13.0°E Sound and Vision: Gary hosts.
E01 4 /13.0°E Antennae-2 Newsfeed from Paris to TV3-Catalunya
E02 9 /10.0°E Eurovision Brussels: European News Unilateral Exchanges.
I06 1 /27.5°W The Early Show

1200 GMT

E01 12 /13.0°E Julie and Diana
E01 4 /13.0°E America Today
I05 7 /24.5°W America Today

1230 GMT

E01 4 /13.0°E Documentary or Educational TV program
I05 7 /24.5°W Documentary or Educational TV program

1235 GMT

E01 6 /13.0°E Documentary

1300 GMT

E01 12 /13.0°E 60 Minute Mix: Martin hosts.
E01 4 /13.0°E Documentary or Educational TV program
I05 7 /24.5°W Documentary or Educational TV program
I06 1 /27.5°W Jack-in-the-Box: Stories and other activities for children under five years old.

1330 GMT

E01 10 /13.0°E Solid Gold: Pop video.
E01 4 /13.0°E ABC World News Tonight (From previous evening).
E01 6 /13.0°E Swiss Family Robinson: Family, adventure series.
I05 7 /24.5°W ABC World News Tonight (From previous evening).

1400 GMT

E01 10 /13.0°E Familienserie: Family serial.
E01 12 /13.0°E Between the Lines: Sunie takes a lighthearted look at the out-pourings of the music press and checks out the news, reviews, interviews and gossip.
E01 6 /13.0°E Sky Trax: Pop music show.

1445 GMT

E01 6 /13.0°E Sky Trax: Pop music show.

1500 GMT

E01 10 /13.0°E Fur Grob und Klein: Children's programming.
E01 12 /13.0°E Gaz Bag: Gaz hosts.
I06 1 /27.5°W Close

1530 GMT

E01 10 /13.0°E Musicbox: Pop video.
E01 6 /13.0°E Sky Trax: Pop music show.

1600 GMT

E01 12 /13.0°E First Sight: The latest videos on Music Box.
E01 4 /13.0°E Antennae-2 newsfeed from Paris to TV3-Catalunya
E02 9 /10.0°E Eurovision Brussels: European News Unilateral Exchanges.

1630 GMT

E01 10 /13.0°E Zeichentrickfilme: Cartoon.
E01 6 /13.0°E Mr. Ed: Comedy special.

1700 GMT

E01 10 /13.0°E Serien: Western series.
E01 12 /13.0°E Sound and Vision: Gary hosts.
E01 6 /13.0°E The Lucy Show: Comedy series.
I06 3 /27.5°W SPORTS-News and Today's Timetable

1710 GMT

I06 3 /27.5°W SPORTS-The First Half

1730 GMT

E01 6 /13.0°E Mork and Mindy: Comedy series.

1800 GMT

E01 10 /13.0°E Aktuelles Quiz: National news.
E01 10 /13.0°E Regionales Fenster: Regional news.
E01 12 /13.0°E Julie and Diana
E01 2 /13.0°E Tiere und Natur
E01 4 /13.0°E Program For the Young

1820 GMT

E01 6 /13.0°E Starsky and Hutch: Action, adventure series.

1825 GMT

E01 4 /13.0°E Movie (Telefilm)

1845 GMT

E01 10 /13.0°E Fraun (Jugend-Unterhaltung): Women's programming.

1900 GMT

E01 12 /13.0°E 60 Minute Mix: Martin hosts.
E01 2 /13.0°E Heute

1915 GMT

E01 6 /13.0°E The New Candid Camera: Comedy series.

1930 GMT

E01 10 /13.0°E Abenteuer: Science-fiction adventure program.
E01 2 /13.0°E Zur Sache Polit. Magazin
I06 3 /27.5°W SPORTS-The Mid-Evening News

1940 GMT

E01 6 /13.0°E Detective School:

EUROPEAN CABLE PROGRAMMING

All times are Greenwich Meridian time

Comedy, drama series.
I06 3 /27.5°W SPORTS-The Main Event

1955 GMT

E01 4 /13.0°E A Mass For Rome (Une Messe Pour Rome): Musical documentary (Documentaire musical).

2000 GMT

E01 12 /13.0°E Between the Lines: Sunie takes a lighthearted look at the out-pourings of the music press and checks out the news, reviews, interviews and gossip.

2005 GMT

E01 6 /13.0°E The Deadly Ernest Horror Show

2030 GMT

E01 10 /13.0°E Manner-Magazin: Men's programming.
E01 2 /13.0°E Familienserie

2100 GMT

E01 12 /13.0°E Gaz Bag: Gaz hosts.
E01 4 /13.0°E The News (Journal Televise)

2115 GMT

E01 2 /13.0°E Zeit im Bild

2130 GMT

E01 10 /13.0°E News, Freizeit, Sport: News, Arts and Sports.

2145 GMT

E01 2 /13.0°E Unterhaltung
E01 6 /13.0°E Sky Trax: Pop music show.

2200 GMT

E01 12 /13.0°E First Sight: The latest videos on Music Box.

2215 GMT

E01 10 /13.0°E Bunte: Talkshow.

2230 GMT

E01 6 /13.0°E Close

2250 GMT

E01 2 /13.0°E Auslandsjournal, Ostreport
I06 3 /27.5°W SPORTS-Close-down News

2300 GMT

E01 12 /13.0°E Sound and Vision: Gary hosts.

2315 GMT

E01 10 /13.0°E Nachrichten: Late news.

2330 GMT

E01 10 /13.0°E Krimi: Crime series.

2350 GMT

E01 2 /13.0°E 3 SAT - Nachrichten

SATURDAY

0010 GMT

E01 10 /13.0°E Spielfilm: Feature film.

0145 GMT

E01 10 /13.0°E Close

0600 GMT

E01 12 /13.0°E Chart Attack: Music Box UK Top 40 Hits.

0700 GMT

E01 12 /13.0°E Gaz Bag: Gaz hosts.
I06 1 /27.5°W Cartoon Time

0800 GMT

E01 12 /13.0°E The Dance Show: Julie Brown the Disco Queen presents an hour of non-stop dance hits.

0900 GMT

E01 12 /13.0°E One Night Stand: A different concert each week.
I06 1 /27.5°W Saturday Cinema Club

1000 GMT

E01 12 /13.0°E Videopix II: Video request show.
E01 4 /13.0°E Praise the Lord: Evangelical program with Jim Bakker.

1100 GMT

E01 12 /13.0°E Diana - Sounds Alive
E01 4 /13.0°E Antennae-2 Newsfeed from Paris to TV3-Catalunya
E01 6 /13.0°E SPORTS-NHL Ice Hockey
I06 1 /27.5°W Cartoon Time

1200 GMT

E01 12 /13.0°E Chart Attack: Music Box UK Top 40 Hits.
E01 4 /13.0°E America Today
I05 7 /24.5°W America Today

1205 GMT

E01 6 /13.0°E SPORTS-All Star Wrestling

1230 GMT

E01 4 /13.0°E Documentary or Educational TV program
I05 7 /24.5°W Documentary or Educational TV program

1300 GMT

E01 12 /13.0°E Gaz Bag: Gaz hosts.
E01 4 /13.0°E Documentary or Educational TV program
E01 6 /13.0°E SPORTS-International Motor Sports
I05 7 /24.5°W Documentary or Educational TV program
I06 1 /27.5°W Saturday Cinema Club

1330 GMT

E01 10 /13.0°E Solid Gold: Pop video.
E01 4 /13.0°E ABC World News Tonight (From previous evening).
I05 7 /24.5°W ABC World News Tonight (From previous evening).

1400 GMT

E01 1 /13.0°E Sky Trax-Pop music show.
E01 10 /13.0°E Familienserie: Family serial.
E01 12 /13.0°E The Dance Show: Julie Brown the Disco Queen presents an hour of non-stop dance hits.

1445 GMT

E01 6 /13.0°E Sky Trax: Pop music show.

1500 GMT

E01 10 /13.0°E Kindersendung: Children's programming.
E01 12 /13.0°E One Night Stand: A different concert each week.
I06 1 /27.5°W Close

1530 GMT

E01 10 /13.0°E Musicbox: Pop video.
E01 6 /13.0°E Sky Trax: Pop music show.

1600 GMT

E01 12 /13.0°E Videopix II: Video request show.
E01 4 /13.0°E Antennae-2 Newsfeed from Paris to TV3-Catalunya

1630 GMT

E01 10 /13.0°E Zeichentrickfilme: Cartoon.
E01 6 /13.0°E Thrillseekers: Action, sports series.

1700 GMT

E01 10 /13.0°E Serien: Light entertainment.
E01 12 /13.0°E Diana - Sounds Alive
E01 6 /13.0°E Chopper Squad: Action, adventure series.
I06 3 /27.5°W SPORTS-News

1710 GMT

I06 3 /27.5°W SPORTS-Speedway: Rob McCaffery's Weekly Review.

1730 GMT

E01 10 /13.0°E Service-Journal: Information Journal.

1735 GMT

I06 3 /27.5°W SPORTS-The Main Event

1750 GMT

E01 6 /13.0°E Starsky and Hutch: Action, adventure series.

1800 GMT

E01 10 /13.0°E Regionales Fenster: Regional news.
E01 12 /13.0°E Chart Attack: Music Box UK Top 40 Hits.
E01 2 /13.0°E Bilder Aus Osterreich
E01 4 /13.0°E Radish Constellation: Zany series

1810 GMT

E01 4 /13.0°E The Odors Band: Variety show.

1830 GMT

E01 10 /13.0°E Aktuelles Quiz: National news.

1840 GMT

E01 6 /13.0°E SPORTS-All Star Wrestling

1845 GMT

E01 10 /13.0°E Spielfilm: Feature film.

1900 GMT

E01 12 /13.0°E Gaz Bag: Gaz hosts.
E01 2 /13.0°E Heute

1905 GMT

E01 4 /13.0°E For a Fistful of Detective Movies

1930 GMT

E01 2 /13.0°E Fernsehspiel (Theater)

1935 GMT

E01 6 /13.0°E Film

2000 GMT

E01 12 /13.0°E The Dance Show: Julie Brown the Disco Queen presents an hour of non-stop dance hits.

2010 GMT

E01 4 /13.0°E Namur's Royal Moncrabeau

2030 GMT

E01 10 /13.0°E Euro-Media Spezial: 1920's documentary.
E01 2 /13.0°E Osterreich II

2035 GMT

E01 4 /13.0°E Ten Puzzle Pieces: Video essays.

2100 GMT

E01 12 /13.0°E One Night Stand: A different concert each week.
E01 4 /13.0°E The News (Journal Televise)

2115 GMT

E01 2 /13.0°E Aspekte

2130 GMT

E01 10 /13.0°E News, Freizeit, Sport: News, Arts and Sports.

2145 GMT

E01 6 /13.0°E Sky Trax: Pop music show.

2150 GMT

E01 2 /13.0°E Aus der Welt der Musik

2200 GMT

E01 12 /13.0°E Videopix II: Video request show.

2215 GMT

E01 10 /13.0°E Spielfilm: Feature film.

2230 GMT

E01 6 /13.0°E Close

2250 GMT

E01 2 /13.0°E Begegnungen
I06 3 /27.5°W SPORTS-Close-down News

2300 GMT

E01 12 /13.0°E Diana - Sounds Alive
E01 4 /13.0°E Dunamis of Nederland: In Dutch.

Atlantic Ocean Region

INTELSAT IVA

Satellite	Location	Tr.#	Tr. Beam	Tr. Type	Polarization/ Center Frequency	Service Description/Country	Audio Info	Estimated Beam-Edge EIRP
I-IVA—F01	31.0 W	5	East Hemi	Half	RH-3798	**Radiodiffusion Television Marocaine TV**—Marocaine TV	3821.12 MHz/ SCPC	22 dBW
I-IVA—F01	31.0 W	13	East Hemi	Half	RH-3965	**Libya**	6.2 MHz S/C	22 dBW
I-IVA—F01	31.0 W	20	Global Beam	Full	RH-4095	**Argentina**	Non-video lease	24 dBW
I-IVA—F01	31.0 W	24	Global Beam	Full	RH-4175	**Argentina Televisora Color (ATC)**—Channel 7, Buenos Aires	6.4 MHz S/C	23 dBW
I-IVA—F04	21.5 W	1	East Hemi	Full	RH-3725	**Saudi Arabian Television**	3901.75 MHz/SCPC	23 dBW
I-IVA—F04	21.5 W	5	East Hemi	Half	RH-3795	**Tele-Sahel**—TV Niger	3822.625 MHz/SCPC	17 dBW
I-IVA—F04	21.5 W	9	East Hemi	Full	RH-3885	**Saudi Arabia**	Non-video lease	—
I-IVA—F04	21.5 W	13	East Hemi	Full	RH-3965	**Sudan Television**	3992.25 MHz/SCPC	20 dBW
I-IVA—F04	21.5 W	17	East Hemi	Half	RH-4045	**Zaire Television**	4071.825 MHz/SCPC	19 dBW

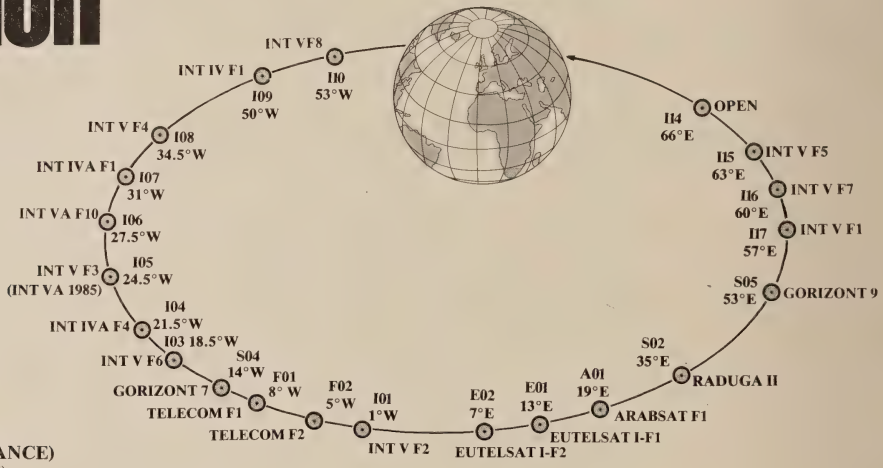
INTELSAT V

I-V—F08	53.0 W	18	Global Beam	Half	RH-4065	**Denmark**—Radio Denmark	4049.625 MHz/SCPC	—
I-V—F08	53.0 W	22	Global Beam	Half	RH-4135	**TV Chile, Santiago, Channel 7**	SCPC	19 dBW
I-V—F04	34.5 W	11	East Zone	Half	LH-3930	**TVE 1**—Spain	6.6 MHz S/C	18 dBW
I-V—F04	34.5 W	15	East Hemi	Half	RH-4010	**TVE 2**—Spain	6.6 MHz S/C	15 dBW
I-V—F04	34.5 W	22	Global Beam	Half	RH-4135	**UK – USA**—International Television lease (WorldNet)	—	—
I-V—F04	34.5 W	24	Global Beam	Full	RH-4177.5	**International Video News Feeds**	—	Varies 17 – 24 dBW
I-V—F03	24.5 W	7	East Spot	Full	V-11.485	**World Net**—TV service of the U.S. Information agency	S/C	39dBW
I-V—F03	24.5 W	24	Global Beam	Half/Full	RH-4177.5	**Occasional Video**—Major international news feeds	—	Varies 17 – 24 dBW
I-V—F06	18.5 W	22	Global Beam	Full	RH-4135	**France**	Non-video lease	—
I-V—F06	18.5 W	24	Global Beam	Half/Full	RH-4177.5	**Occasional Video**—Major international news feeds	—	Varies 17 – 24 dBW
I-V—F02	1.0 W	7	Global Beam	Full	RH-3845	**Norway**	Non-video lease	—
I-V—F02	1.0 W	9	East Hemi	Full	RH-3885	**AFRTS—Southern Europe Broadcasting TV**	S/C	26dBW
I-V—F02	1.0 W	18	Global Beam	Half	RH-4065	**BrightStar**—Independent international satellite system providing video services between USA and UK	6.625 MHz S/C	18dBW
I-V—F02	1.0 W	19	Global Beam	Full	RH-4085	**Portugal TV**	6.6 MHz S/C	18dBW
I-V—F02	1.0 W	22	Global Beam	Full	RH-4135	**Portugal**	Non-video lease	—
I-V—F02	1.0 W	24	Global Beam	Full	RH-4175	**American Forces Radio and Television Service**—Provides live American programming to servicemen abroad	6.8 MHz S/C	20dBW
I-V—F01	57.0 E	5	East Hemi	Full	RH-3805	**India**	Non-video lease	—
I-V—F01	57.0 E	9	West Hemi	Half	RH-3875	**Television Algerie**	SCPC	26 dBW
I-V—F01	57.0 E	10	West Hemi	Half	RH-3905	**France**	Non-video lease	—
I-V—F01	57.0 E	14	West Hemi	Half	RH-3975	**Nigerian Television**	—	16 dBW
I-V—F01	57.0 E	16	East Hemi	Quarter	RH-3995	**Thailand**	Non-video lease	—
I-V—F01	57.0 E	18	West Hemi	Full	RH-4055	**Nigeria TV**	Non-video lease/ SCPC	21 dBW
I-V—F01	57.0 E	20	Global Beam	Full	RH-4085	**Oman Television**	SCPC	19 dBW
I-V—F01	57.0 E	22	Global Beam	Full	RH-4135	**Nigeria**	Non-video lease	—

Satellite	Location	Tr.#	Tr. Beam	Tr. Type	Polarization/ Center Frequency	Service Description/Country	Audio Info	Estimated Beam-Edge EIRP
I-V—F07	60.0 E	24	Global Beam	Half/Full	RH-4177.5	**International News Feeds**	—	Varies 17 – 24 dBW
I-V—F05	63.0 E	10	West Hemi	Half	RH-3905	**France**	Non-video lease	—
I-V—F05	63.0 E	24	Global Beam	Half/Full	RH-4177.5	**Occasional Video**—European and Australian news feeds	—	Varies 17 – 24 dBW
MOLNIYA								
MOLNIYA 3	Non-Geo-synch.	9	Northern Global Beam	Full	RH-3875	**II Programma**—Soviet Television, Moscow	Sound-in-sync	31 dBW
GORIZONT								
GORIZONT 7	14.0 W		Spot Beam	Full	11.512 GHz	**I Programma**—Soviet Television, Moscow	7.0 MHz S/C	—
GORIZONT 7	14.0 W	– 1	Spot Beam	Full	RH-3675	**I Programma**—Soviet Television, Moscow	7.0 MHz S/C with audio companding	22 dBW (Americas) 46 dBW (Europe)
GORIZONT 7	14.0 W	1	Global Beam	Full	RH-3725	**Occasional Video**	7.5 MHz S/C	28 dBW
GORIZONT 7	14.0 W	4	North Hemi	Full	RH-3775	**Non-video SCPC Telephony**—Radio Moscow at 3778.975 MHz	—	—
GORIZONT 7	14.0 W	6	Global Beam	Full	RH-3825	**Intersputnik and O.I.R.T. TV Program exchanges**	7.5 MHz S/C	28 dBW
GORIZONT 7	14.0 W	9	North Hemi	Full	RH-3875	**Non-video wideband digital signals**	—	—
GORIZONT 7	14.0 W	11	North Hemi	Full	RH-3925	**Non-video narrowband digital signals**	—	—
GORIZONT 9	53.0 E	– 1	Spot Beam	Full	RH-3675	**I Programma**—Soviet Television, Moscow	7.0 MHz S/C with audio companding	17 dBW (Europe) 46 dBW (Asia)
GORIZONT 9	53.0 E	4	North Hemi	Full	RH-3775	**Non-video SCPC Telephony**	—	—
GORIZONT 9	53.0 E	6	Zone Beam	Full	RH-3825	**Non-video wideband digital signals**	—	—
GORIZONT 9	53.0 E	9	North Hemi	Full	RH-3875	**II Programma**—Soviet Television, Moscow	Sound-in-sync	—
GORIZONT 9	53.0 E	11	North Hemi	Full	RH-3925	**Non-video wideband digital signals**	—	—
GORIZONT 8	90.0 E	– 1	Spot Beam	Full	RH-3675	**II Programma**—Soviet Television, Moscow	7.0 MHz S/C with audio companding	—
GORIZONT 8	90.0 E	9	North Hemi	Full	RH-3875	**I Programma**—Soviet Television, Moscow	Sound-in-sync	—
TELECOM F1								
TELECOM F1	8.0 W	1	Semi-Global	Full	LH-3710	**AITV, Agence d'Images Television Francaise, News**—Paris	6.6 MHz S/C	24 dBW
TELECOM F1	8.0 W	4	Spot Beam	Full	LH-3780	**Non-video TDMA Telephony**	—	—
TELECOM F1	8.0 W	5	Spot Beam	Full	LP-12690	**Occasional Video**	—	40 dBW
TELECOM F1	8.0 W	6	Spot Beam	Full	LP-12732	**Occasional Video**	—	40 dBW
INSAT								
INSAT 1-B	74.0 E	S*	Spot Beam	Full	LP-2575	**TV India**	—	—
INSAT 1-B	74.0 E	S*	Spot Beam	Full	LP-2615	**TV India**	—	—

H = horizontal polarization **RH** = right-hand circular polarization **LH** = left-hand circular polarization **LP** = linear polarization **SCPC** = single-channel-per-carrier
* S band transponders between 2.50 – 2.69 GHz.

Atlantic Ocean Region



A = ARABSAT
S = STATSIONAR
F = TELECOM (FRANCE)
I = INTELSAT (INT)
E = EUTELSAT

The following international satellite programming guide represents a typical schedule for 16 C-band satellite TV transponders which beam their signals into Europe, Africa, and the Middle East. While *Satellite World* makes every attempt to keep the program listings as current as possible, the reader should be aware that some television networks listed below may realign their programming schedules by inserting sports events, specials, miniseries, or new programs, often without prior notice.

Program times are listed in GMT; each program day begins at 0000.

Sixteen international satellite services are listed in this month's Atlantic Ocean programming guide. Additional program schedules for other 4-GHz satellite TV services will be added in the months ahead.

ID. NO.	SATELLITE	TR. #	BEAM	SERVICE
I10	Int. V F8	22	Global	TV Chile, Channel 7, Santiago, Chile
I08	Int. V F4	11	East Zone	TVE 1 (Spain)
I08	Int. V F4	15	East Hemi	TVE 2 (Spain)
I08	Int. V F4	24	Global	International News and Sports Feeds
I07	Int. IVA F1	5	East Hemi	Marocaine TV (Morocco)
I07	Int. IVA F1	13	East Hemi	TV Libya
I07	Int. IVA F1	24	Global	Argentina Televisora Color
I05	Int. V F3	24	Global	International News and Sports Feeds
I04	Int. IVA F4	13	East Hemi	Sudan Television
I04	Int. IVA F4	17	East Hemi	Zaire Television
S04	Gorizont 7	6	Global	Portions of I Programma; Intervision Unilaterals
F01	Telecom F1	1	Semi-Global	AITV, Paris
I01	Int. V F2	19	Global	RTP, Lisbon, Portugal
I01	Int. V F2	24	Global	AFRTS (American Forces Radio and Television Service)
I16	Int. V F5	24	Global	Eurovision News Feeds, Brussels UPITN, England and Australia
I17	Int. V F1	20	Global	TV Oman

All times are Greenwich Meridian time

SUNDAY

0000 GMT

I01 24 /1.0°W SPORTS-ESPN Sports Event
I07 24 /31.0°W Martin Eden: Miniserie (Miniseries).

0015 GMT

I08 15 /34.5°W Despedida y Cierre (Close)

0025 GMT

I10 22 /53.0°W Visiones (Visions)

0030 GMT

I10 22 /53.0°W Noche de Gigantes (Night of Giants)

0100 GMT

I07 24 /31.0°W Fiebre Amarilla (Yellow Fever)

0230 GMT

I10 22 /53.0°W Cine de Media Noche (Midnight Movie)1

0330 GMT

I01 24 /1.0°W SPORTS-CNN Sports Tonite
I07 24 /31.0°W Cine de Trasnoche (Movie)

0400 GMT

I01 24 /1.0°W CNN Week in Japan

0430 GMT

I01 24 /1.0°W CNN Headline News

0500 GMT

I01 24 /1.0°W AFRTS Sign Off or CNN Headline News

0845 GMT

I08 11 /34.5°W Carta de Ajuste (Test Card)

0850 GMT

I08 11 /34.5°W Apertura y Presentacion (Opening)

0855 GMT

I08 11 /34.5°W Concierto (Concert)

0930 GMT

I08 11 /34.5°W El Dia Del Senor (God's Day): Santa Misa (Holy Mass).

1030 GMT

I08 11 /34.5°W Pueblo de Dios (God's Town)

1045 GMT

I08 11 /34.5°W Carta de Ajuste (Test Card)

1055 GMT

I08 15 /34.5°W Apertura y Presentacion (Opening)

1100 GMT

I08 11 /34.5°W Desfile Militar (Military Parade)
I08 15 /34.5°W La Buena Musica (The Good Music)
I17 20 /57.0°E Royal Anthem-Holy Koran

1130 GMT

I17 20 /57.0°E Cartoon: Children's programming.

1200 GMT

I08 11 /34.5°W Estudio Estadio (Stadium Study)
I08 15 /34.5°W Ruy, El Pequeno Cid

1225 GMT

I08 15 /34.5°W El Nuevo Pacifico (The New Pacific)

1230 GMT

I04 17 /21.5°W Zaire TV News
I07 24 /31.0°W La Fe del Hombre (Man's Faith)

1245 GMT

I10 22 /53.0°W La Santa Misa (The Holy Mass): Religioso (Religious).
I17 20 /57.0°E Educational Program

1300 GMT

I01 24 /1.0°W AFRTS Sign On: Schedules, advisories and color bars.
I04 17 /21.5°W Children's Programming
I07 24 /31.0°W Buen Dia, Maria (Good Day, Maria)

1315 GMT

I08 15 /34.5°W El Padre Murphy (Father Murphy)

1330 GMT

I01 24 /1.0°W CNN Headline News

1335 GMT

I04 17 /21.5°W Close

1340 GMT

I17 20 /57.0°E Arabic Serial

1400 GMT

F01 1 /8.0°W AITV News Paris
I01 24 /1.0°W CBS Sunday Morning
I07 13 /31.0°W Color Bars
I07 24 /31.0°W SPORTS-Deportes con los Mejores (Sports with the Best)
I08 11 /34.5°W Telediario (Teledaily): Noticias (News)
I10 22 /53.0°W Viva El Deporte (Hurray for Sports)

1405 GMT

I08 15 /34.5°W SPORTS-Transmision del Campeonato de Europa de Gimnasia Masculina (Transmission of the European Men's Gymnastics Championships)

1430 GMT

I17 20 /57.0°E Cultural Program

1435 GMT

I08 11 /34.5°W Heathcliff y Marmaduke: Dibujos animados (Cartoons).

1500 GMT

I08 11 /34.5°W Fama (Fame)
I10 22 /53.0°W Cachureos: Programa infantil (Children's programming).
I17 20 /57.0°E News: Local.

1530 GMT

I01 24 /1.0°W ABC This Week With David Brinkley: U.S. current affairs program with interviews with government officials.
I17 20 /57.0°E Local Program

1555 GMT

I08 11 /34.5°W SPORTS-Gimnasia (Gymnastics)

1600 GMT

I04 13 /21.5°W Documentary
I07 13 /31.0°W Live Coverage of Libyan "People's Committees"
I08 15 /34.5°W Estrenos TV (TV Debut)
I10 22 /53.0°W Magnetoscopio Musical
I17 20 /57.0°E Religious Program

1630 GMT

I01 24 /1.0°W CNN Headline News
I04 13 /21.5°W News in English

1700 GMT

I01 24 /1.0°W SPORTS-Major Sporting Event
I04 13 /21.5°W Arabian Soap Opera
I04 17 /21.5°W Children's Programming
I08 11 /34.5°W Esto Es Lo Que Hay (This Is What There Is)
I17 20 /57.0°E News: Arabic.

1730 GMT

I10 22 /53.0°W Dibujos Animados (Cartoons).
I17 20 /57.0°E Arabic Serial

1750 GMT

I08 15 /34.5°W Tao-Tao

1800 GMT

I04 17 /21.5°W Sports
I07 24 /31.0°W SPORTS-Tenis Internacional (International Tennis)
I07 5 /31.0°W Children's Programming
I08 11 /34.5°W SPORTS-Grand Prix

1815 GMT

I08 15 /34.5°W El Ano en Que Nacimos (The Year We Were Born)

1830 GMT

I04 13 /21.5°W News in Arabic
I04 17 /21.5°W Zaire TV News
I08 11 /34.5°W M.A.S.H.: Comedia (Comedy).
I17 20 /57.0°E News: English.

1855 GMT

I04 13 /21.5°W Weather Report

1900 GMT

I04 13 /21.5°W Current Affairs Program
I04 17 /21.5°W French Language Entertainment Program
I07 24 /31.0°W SPORTS-Basquet (Basketball)
I08 11 /34.5°W Mas Vale Prevenir (An Ounce of Prevention)
I17 20 /57.0°E Program Review

1905 GMT

I08 15 /34.5°W Zola
I17 20 /57.0°E English Film

1930 GMT

I04 13 /21.5°W Drama or Action series
I08 11 /34.5°W SPORTS-Carreras de Caballos (Horse Races)

2000 GMT

I01 24 /1.0°W SPORTS-Major Sporting Event
I07 13 /31.0°W Libyan TV News
I07 5 /31.0°W Moroccan Soap Opera
I08 11 /34.5°W Telediario (Teledaily): Noticias (News)

2010 GMT

I08 15 /34.5°W El Legado del Mundo Arabe (The Legacy of the Arab World)

2030 GMT

I01 19 /1.0°W RTP News from Lisbon, Portugal
I07 13 /31.0°W Weather
I10 22 /53.0°W La Pandilla Computarizada (The Computerized Band)
I17 20 /57.0°E News in Brief-Holy Koran

2035 GMT

I07 13 /31.0°W Current Affairs program
I08 11 /34.5°W Mike Hammer
I08 15 /34.5°W El Dominical (The Dominical)

2045 GMT

I17 20 /57.0°E Royal Anthem

2100 GMT

I07 13 /31.0°W Light Entertainment Show
I07 24 /31.0°W La Pelicula Sorpresa (The Surprise Movie)
I07 5 /31.0°W Marocaine TV News & Weather

2130 GMT

I04 13 /21.5°W Late News in Arabic
I07 5 /31.0°W Light Entertainment Program
I08 11 /34.5°W Estudio Estadio (Stadium Study)
I10 22 /53.0°W Jappening Con Ja (Happening With Ja)

2140 GMT

I08 15 /34.5°W Largometraje (Long Footage)

2200 GMT

I04 13 /21.5°W Close
I08 24 /34.5°W Globo TV NY: News feeds from NY to Rio de Janeiro.

2215 GMT

I04 17 /21.5°W Late News
I07 5 /31.0°W Close

2240 GMT

I04 17 /21.5°W Close

ATLANTIC OCEAN REGION

All times are Greenwich Meridian time

I08 11 /34.5°W Autorretrato (Portrait of an Author)

2245 GMT

I07 18 /31.0°W Close

2300 GMT

I01 24 /1.0°W CNN Headline News
I07 24 /31.0°W Encuentros (Encounters)

2330 GMT

I08 11 /34.5°W Despedia y Cierre (Farewell and Sign Off)
I10 22 /53.0°W 60 Minutos (60 Minutes): Noticias (News).

2340 GMT

I08 15 /34.5°W Despedida y Cierre (Close)

MONDAY

0000 GMT

I01 24 /1.0°W CNN Continues
I07 24 /31.0°W El Prisma de la Vida (The Prism of Life)

0030 GMT

I10 22 /53.0°W Best Seller: Pelicula (Movie).

0100 GMT

I01 24 /1.0°W CNN Headline News
I07 24 /31.0°W Cuentos Para Ver (Tales to See)

0230 GMT

I10 22 /53.0°W SPORTS-Zoom Deportivo (Zoom Sports)

0300 GMT

I01 24 /1.0°W SPORTS-CNN Sports Tonite
I07 24 /31.0°W Kenia Sharp Club: Serie (Series).

0330 GMT

I01 24 /1.0°W AFRTS Sign Off or CNN Headline News

0430 GMT

I10 22 /53.0°W Cierre (Close)

1100 GMT

I05 24 /24.5°W Eurovision Brussels: European News Unilateral Exchanges.
I17 20 /57.0°E Royal Anthem-Holy Koran: Religious talk.

1110 GMT

I17 20 /57.0°E Cartoon: Children's programming.

1130 GMT

I05 24 /24.5°W CBS and NBC News Feeds from London

1200 GMT

I17 20 /57.0°E Educational Program

1230 GMT

I04 17 /21.5°W Zaire TV News
I07 24 /31.0°W Telescuela Tecnica (Technical TV School)
I08 11 /34.5°W Carta de Ajuste (Test Card)

I17 20 /57.0°E Children's Program: English.

1245 GMT

I08 11 /34.5°W Programacion de Cobertura Regional (Program of Regional Coverage)

1300 GMT

I01 24 /1.0°W Sign On
I04 17 /21.5°W Children's Programming
I07 24 /31.0°W Buen Dia Maria (Good Day Maria): Clases de gimasia (Gymnastics classes).
I17 20 /57.0°E Children's Program: Arabic.
S04 6 /14.0°W UPITN News From London

1315 GMT

S04 6 /14.0°W Intervision News Unilaterals

1330 GMT

I01 24 /1.0°W ABC World News AM

1335 GMT

I04 17 /21.5°W Close

1340 GMT

I17 20 /57.0°E Arabic Serial

1355 GMT

I08 11 /34.5°W Conexion con la Programacion Nacional (National programming)

1400 GMT

F01 1 /8.0°W AITV News Paris
I01 24 /1.0°W NBC Today Show
I05 24 /24.5°W UPITN News London
I07 18 /31.0°W Color Bars
I07 24 /31.0°W Popeye y Sus Amigos (Popeye and His Friends): Dibujos animados (Cartoons).
I08 11 /34.5°W Telediario.Primera Edicion (Teledaily.First Edition)
I10 22 /53.0°W Matinal Infantil (Children's Morning Show)

1425 GMT

I10 22 /53.0°W La Cocina de Monica (Monica's Kitchen)

1430 GMT

I05 24 /24.5°W Visnews for Middle East and Europe
I07 24 /31.0°W Vivir Bien (To Live Well)
I10 22 /53.0°W Mazapan
I17 20 /57.0°E Cultural Program

1435 GMT

I08 11 /34.5°W Falcon Crest

1500 GMT

I07 24 /31.0°W Treinta-Treinta: Noticias (News).
I10 22 /53.0°W El Festival de la Una (Festival for One)
I17 20 /57.0°E News: Local.

1520 GMT

I17 20 /57.0°E Local Program

1530 GMT

I08 11 /34.5°W Viva La Tarde! (Long Live the Afternoon!)

1600 GMT

I01 24 /1.0°W CNN Headline News
I04 18 /21.5°W Documentary
I05 24 /24.5°W Eurovision Brussels: European News Unilateral Exchanges.
I07 18 /31.0°W Live Coverage of Libyan "People's Committees"
I07 24 /31.0°W NOVELA-Extranos y Amantes (Strange y Lovers)

1615 GMT

I17 20 /57.0°E English Serial

1625 GMT

I08 11 /34.5°W Esto Es Increible (That's Incredible)

1630 GMT

I04 18 /21.5°W News in English

1700 GMT

I01 24 /1.0°W CNN Take Two: Hour 2.
I04 18 /21.5°W Arabian Soap Opera
I04 17 /21.5°W Children's Programming
I05 24 /24.5°W Visnews London: Early evening news feeds for SABC Johannesburg.
I07 24 /31.0°W 20 Mujeres (20 Women): Periodistico (Journalistic).
I10 22 /53.0°W Edicion Uno (First Edition): Noticias (News).
I17 20 /57.0°E News: Arabic.
S04 6 /14.0°W Vremya (Time): The Moscow Evening News, Sports, Weather.

1720 GMT

I08 11 /34.5°W Hola, Chicos! (Hello, Kids!)

1725 GMT

I08 11 /34.5°W Barrio Sesamo (Sesame Street): Children's programming.

1730 GMT

I10 22 /53.0°W Chispita: Teleserie (Teleseries).

1745 GMT

I08 15 /34.5°W Carta de Ajuste (Test Card)

1755 GMT

I08 11 /34.5°W El Planeta Imaginario (The Imaginary Planet)
I08 15 /34.5°W Apertura y Presentacion (Opening)

1800 GMT

I01 24 /1.0°W CNN Headline News
I04 17 /21.5°W Sports
I07 5 /31.0°W Children's Programming
I08 15 /34.5°W Agenda
I10 22 /53.0°W Un Minuto en la Moda (One Minute in Fashion)

1805 GMT

I10 22 /53.0°W Amalia Batista: Teleserie (Teleseries).

1810 GMT

I08 15 /34.5°W Curso de Ingles (English Course)

1820 GMT

I08 11 /34.5°W Informativo Juvenil (Youthful Report)

1825 GMT

I08 15 /34.5°W En Marcha (In Progress)

1830 GMT

I01 24 /1.0°W 60 Minutes
I04 18 /21.5°W News in Arabic
I04 17 /21.5°W Zaire TV News
I17 20 /57.0°E News: English.

1835 GMT

I08 11 /34.5°W Pista Libre (Free Track)

1845 GMT

I08 15 /34.5°W Arco Iris (Rainbow)

1855 GMT

I04 18 /21.5°W Weather Report

1900 GMT

I04 18 /21.5°W Current Affairs Program
I04 17 /21.5°W French Language Entertainment Program
I07 24 /31.0°W Telejuegos (Telegames): Infantil (Children's programming).
I08 15 /34.5°W Especial Informativo (Special Report)
I10 22 /53.0°W Hombre Nuclear (Nuclear Man): Serie de accion (Action series).
I17 20 /57.0°E Program Review-Arabic Film

1910 GMT

I05 24 /24.5°W OTI: SIN News.

1930 GMT

I01 24 /1.0°W Meet the Press
I04 18 /21.5°W Light Entertainment Show
I08 11 /34.5°W Consumo (Consumption)
I08 15 /34.5°W La Noche del Cine Espanol (The Night of the Spanish Movie)

1950 GMT

I08 24 /34.5°W UPITN DSSA News Unilaterals: Including Globo, Canadian CTV, and US network feeds.

2000 GMT

I01 24 /1.0°W Face the Nation
I07 18 /31.0°W Libyan TV News
I07 5 /31.0°W Moroccan Soap Opera
I08 11 /34.5°W Telediario.Segunda Edicion (Teledaily.Second Edition): Noticias (News).

2010 GMT

I10 22 /53.0°W Tardes de Cine (Afternoon Movie)

2030 GMT

I01 19 /1.0°W RTP News from Lisbon, Portugal

All times are Greenwich Meridian time

I01 24 /1.0°W CNN Headline News
I07 18 /31.0°W Weather
I07 24 /31.0°W El Auto Fantastico (The Fantastic Auto): Serie (Series).
I16 24 /60.0°E Visnews London for Asia and Pacific
I17 20 /57.0°E News in Brief-Holy Koran

2035 GMT

I07 18 /31.0°W Current Affairs program
I08 11 /34.5°W El Superagente 86 (Get Smart)

2040 GMT

I05 24 /24.5°W Visnews London

2045 GMT

I17 20 /57.0°E Royal Anthem

2100 GMT

I01 24 /1.0°W CNN Take Two: Hour 1.
I07 18 /31.0°W Light Entertainment Show
I07 5 /31.0°W Marocaine TV News & Weather

2105 GMT

I08 11 /34.5°W Goya

2130 GMT

I04 18 /21.5°W Late News in Arabic
I07 24 /31.0°W La Sexta de ATC: Noticias (News).
I07 5 /31.0°W Light Entertainment Program
I16 24 /60.0°E Visnews London

2140 GMT

I05 24 /24.5°W Visnews

2200 GMT

I01 24 /1.0°W AFRTS Advisory Block: Schedules, advisories and color bars.
I04 18 /21.5°W Close
I05 24 /24.5°W CBS International: News unilaterals for South America.
I07 24 /31.0°W Gente Como la Gente (People Like People): Telecomedia (Comedy).
I08 24 /34.5°W Globo TV NY: News feeds from NY to Rio de Janeiro.
I10 22 /53.0°W Segunda Franja Cultural (Second Cultural Fringe)

2205 GMT

I08 11 /34.5°W Vivir Cada Dia (Live Every Day)

2210 GMT

I05 24 /24.5°W NBC News Feeds

2215 GMT

I04 17 /21.5°W Late News
I07 5 /31.0°W Close

2230 GMT

I01 24 /1.0°W ABC World News Tonight
I08 15 /34.5°W Musica y Musicos (Music and Musicians)

2240 GMT

I04 17 /21.5°W Close

2245 GMT

I07 18 /31.0°W Close

2300 GMT

I01 24 /1.0°W NBC Nightly News
I05 24 /24.5°W UPITN for Latin America
I07 24 /31.0°W Mesa de Noticias (News Desk): humoristico (Comedy).
I08 11 /34.5°W Telediario 3 (Teledaily 3): Noticias (News).
I10 22 /53.0°W El Show de los Muppets (The Muppet Show)

2310 GMT

I08 15 /34.5°W Ultimas Preguntas (Final Questions)

2320 GMT

I08 11 /34.5°W Teledeporte (Sports News)

2330 GMT

I01 24 /1.0°W CBS Evening News
I10 22 /53.0°W 60 Minutos (60 Minutes): Noticias (News).

2335 GMT

I08 11 /34.5°W Despedida y Cierre (Farewell and Sign Off)

2340 GMT

I08 15 /34.5°W Resumen Infomativo: Noticias (News).

TUESDAY

0000 GMT

I01 24 /1.0°W CNN Continues
I07 24 /31.0°W Pequena Gloria (Little Gloria): Miniserie (Miniseries).

0010 GMT

I08 15 /34.5°W Despedida y Cierre (Close)

0030 GMT

I10 22 /53.0°W Marca Registrada (Noteworthy Recording)

0100 GMT

I01 24 /1.0°W MacNeil, Lehrer Report
I07 24 /31.0°W Interpelacion (Questioning): Peridoistico (Journalism).

0200 GMT

I01 24 /1.0°W CNN Headline News

0230 GMT

I07 24 /31.0°W Fuera de Broma (All Joking Aside): Humoristico (Comedy).

0245 GMT

I10 22 /53.0°W Edicion Dos (Edition Two): Noticias (News).

0300 GMT

I01 24 /1.0°W SPORTS-CNN Sports
I07 24 /31.0°W Titulares (Titles): Informativo (Report).

0310 GMT

I10 22 /53.0°W Clasicos del Cine (Movie Classics)

0330 GMT

I01 24 /1.0°W NBC Tonight Show starring Johnny Carson

0430 GMT

I01 24 /1.0°W CNN Headline News

0500 GMT

I01 24 /1.0°W ABC Nightline
I10 22 /53.0°W Cierre (Close)

0530 GMT

I01 24 /1.0°W CNN Headline News

0600 GMT

I01 24 /1.0°W AFRTS Sign Off or CNN Headline News

1100 GMT

I05 24 /24.5°W Eurovision Brussels: European News Unilateral Exchanges.
I17 20 /57.0°E Royal Anthem-Holy Koran: Religious talk.

1125 GMT

I17 20 /57.0°E Cartoon: Children's programming.

1130 GMT

I05 24 /24.5°W CBS and NBC News Feeds from London

1200 GMT

I17 20 /57.0°E Educational Program

1230 GMT

I04 17 /21.5°W Zaire TV News
I07 24 /31.0°W Telescuela Tecnica (Technical TV School)
I08 11 /34.5°W Carta de Ajuste (Test Card)
I17 20 /57.0°E Children's Program: English.

1245 GMT

I08 11 /34.5°W Programacion de Cobertura Regional (Program of Regional Coverage)

1300 GMT

I01 24 /1.0°W Sign On
I04 17 /21.5°W Children's Programming
I07 24 /31.0°W Buen Dia Maria (Good Day Maria): Clases de gimasia (Gymnastics classes).
I17 20 /57.0°E Open Seasame: Children's Program in Arabic.
S04 6 /14.0°W UPITN News from London

1315 GMT

S04 6 /14.0°W Intervision News Unilaterals

1330 GMT

I01 24 /1.0°W ABC World News AM

1335 GMT

I04 17 /21.5°W Close

1340 GMT

I17 20 /57.0°E Arabic Serial

1355 GMT

I08 11 /34.5°W Conexion Con La Programacion Nacional (National programming)

1400 GMT

F01 1 /8.0°W AITV News Paris

I01 24 /1.0°W NBC Today Show
I05 24 /24.5°W UPITN News London
I07 18 /31.0°W Color Bars
I07 24 /31.0°W Popeye y Sus Amigos (Popeye and His Friends): Dibujos animados (Cartoons).
I08 11 /34.5°W Telediario.Primera Edicion (Teledaily.First Edition)
I10 22 /53.0°W Matinal Infantil (Children's Morning Show)

1430 GMT

I05 24 /24.5°W Visnews for Middle East and Europe
I07 24 /31.0°W Vivir Bien (To Live Well)
I17 20 /57.0°E Cultural Program

1435 GMT

I08 11 /34.5°W Falcon Crest

1500 GMT

I07 24 /31.0°W Treinta-Treinta: Noticias (News).
I17 20 /57.0°E News: Local.

1520 GMT

I17 20 /57.0°E Local Program

1530 GMT

I08 11 /34.5°W Viva La Tarde! (Long Live the Afternoon!)
I10 22 /53.0°W Festival de la Una (Festival for One)

1550 GMT

I17 20 /57.0°E Cultural Program

1600 GMT

I01 24 /1.0°W CNN Headline News
I04 18 /21.5°W Documentary
I05 24 /24.5°W Eurovision Brussels: European News Unilateral Exchanges.
I07 18 /31.0°W Live Coverage of Libyan "People's Committees"
I07 24 /31.0°W NOVELA-Extranos y Amantes (Strangers and Lovers)

1615 GMT

I17 20 /57.0°E English Serial

1625 GMT

I08 11 /34.5°W Cuentos y Leyendas (Tales and Legends)

1630 GMT

I01 24 /1.0°W SPORTS-ESPN Sportscenter
I04 18 /21.5°W News in English

1700 GMT

I01 24 /1.0°W CNN Take Two: Hour 2.
I04 18 /21.5°W Arabian Soap Opera
I04 17 /21.5°W Children's Programming
I05 24 /24.5°W Visnews London: Early evening news feeds for SABC Johannesburg.

ATLANTIC OCEAN REGION

All times are Greenwich Meridian time

I07 24 /31.0°W 20 Mujeres (20 Women): Periodistico (Journalistic).
I17 20 /57.0°E News: Arabic.
S04 6 /14.0°W Vremya (Time): The Moscow Evening News, Sports, Weather.

1725 GMT

I08 11 /34.5°W Hola, Chicos! (Hello, Kids!)

1730 GMT

I08 11 /34.5°W Barrio Sesamo (Sesame Street): Children's programming.
I10 22 /53.0°W Edicion Uno (First Edition): Noticias (News).
I17 20 /57.0°E Arabic Serial

1745 GMT

I08 15 /34.5°W Carta de Ajuste (Test Card)
I10 22 /53.0°W Chispita: Teleserie (Teleseries).

1755 GMT

I08 11 /34.5°W Los Electroduendes (The Electrogoblins)
I08 15 /34.5°W Apertura y Presentacion (Opening)

1800 GMT

I01 24 /1.0°W CNN Headline News
I04 17 /21.5°W Sports
I07 5 /31.0°W Children's Programming
I08 15 /34.5°W Agenda

1810 GMT

I08 15 /34.5°W Curso de Ingles (English Course)

1815 GMT

I08 11 /34.5°W Informativo Juvenil (Youthful Report)
I10 22 /53.0°W Un Minuto en la Moda (One Minute in Fashion)

1820 GMT

I10 22 /53.0°W La Feira (The Hustler)

1825 GMT

I08 15 /34.5°W En Marcha (In Progress)

1830 GMT

I04 13 /21.5°W News in Arabic
I04 17 /21.5°W Zaire TV News
I08 11 /34.5°W Tocata
I17 20 /57.0°E News: English.

1845 GMT

I08 15 /34.5°W Arco Iris (Rainbow)

1855 GMT

I04 13 /21.5°W Weather Report
I10 22 /53.0°W Los Poderes de Matthew Star (The Powers of Matthew Star): Serie de aventuras y ficcion (Adventure series).

1900 GMT

I01 24 /1.0°W CNN Continues
I04 13 /21.5°W Current Affairs Program
I04 17 /21.5°W French Language Entertainment Program
I07 24 /31.0°W Telejuegos (Telegames): Infantil (Children's programming).
I08 15 /34.5°W Tiempos Modernos (Modern Times)
I17 20 /57.0°E Program Review-Local Program

1910 GMT

I05 24 /24.5°W OTI: SIN News.

1930 GMT

I04 13 /21.5°W Light Entertainment Show
I08 11 /34.5°W Al Mil Por Mil (To the Thousand by Thousand)

1950 GMT

I08 24 /34.5°W UPITN DSSA News Unilaterals: Including Globo, Canadian CTV, and US network feeds.

2000 GMT

I07 13 /31.0°W Libyan TV News
I07 5 /31.0°W Moroccan Soap Opera
I08 11 /34.5°W Telediario (Teledaily): Noticias (News).
I08 15 /34.5°W Los Vecinos (The Neighbors)
I10 22 /53.0°W Dibujos Animados (Cartoons).

2020 GMT

I10 22 /53.0°W MOVIE-Tardes de Cine (The Afternoon Movie)

2030 GMT

I01 19 /1.0°W RTP News from Lisbon, Portugal
I01 24 /1.0°W CNN Headline News
I07 13 /31.0°W Weather
I07 24 /31.0°W Los Duke de Hazzard (The Dukes of Hazzard): Serie (Series).
I08 15 /34.5°W Si Yo Fuera Presidente (If I Were President)
I16 24 /60.0°E Visnews London for Asia and Pacific
I17 20 /57.0°E News in Brief-Holy Koran

2035 GMT

I07 13 /31.0°W Current Affairs program
I08 11 /34.5°W El Hombre y la Tierra (Man and the Earth)

2040 GMT

I05 24 /24.5°W Visnews London

2045 GMT

I17 20 /57.0°E Royal Anthem

2100 GMT

I01 24 /1.0°W CNN Take Two: Hour 1
I07 13 /31.0°W Light Entertainment Show
I07 5 /31.0°W Marocaine TV News & Weather

2105 GMT

I08 11 /34.5°W La Joya de la Corona (The Jewel of the Crown)

2130 GMT

I04 13 /21.5°W Late News in Arabic
I07 24 /31.0°W La Sexta de ATC: Noticias (News).
I07 5 /31.0°W Light Entertainment Program
I16 24 /60.0°E Visnews London

2140 GMT

I05 24 /24.5°W Visnews

2200 GMT

I01 24 /1.0°W AFRTS Advisory Block: Schedules, advisories and color bars.
I04 13 /21.5°W Close
I05 24 /24.5°W CBS International: News unilaterals to South America.
I07 24 /31.0°W Gente Como la Gente (People Like People): Telecomidia (Comedy).
I08 24 /34.5°W Globo TV NY: News feeds from NY to Rio de Janeiro.

2205 GMT

I08 15 /34.5°W El Quinto Jinete (The Fifth Horseman)

2210 GMT

I05 24 /24.5°W NBC News Feeds

2215 GMT

I04 17 /21.5°W Late News
I07 5 /31.0°W Close

2230 GMT

I01 24 /1.0°W ABC World News Tonight

2240 GMT

I04 17 /21.5°W Close

2245 GMT

I07 13 /31.0°W Close

2255 GMT

I08 15 /34.5°W Mujeres Para Una Epoca (Women for an Epoch)

2300 GMT

I01 24 /1.0°W NBC Nightly News
I05 24 /24.5°W UPITN for Latin America
I07 24 /31.0°W Mesa de Noticias (News Desk): Programa humoristico (Comedy).
I08 11 /34.5°W Telediario (Teledaily): Noticias (News).
I10 22 /53.0°W Chispita (Little Spark)

2320 GMT

I08 11 /34.5°W Despedida y Cierre (Farewell and Sign Off)

2325 GMT

I08 15 /34.5°W Resumen Informativo: Noticias (News).

2330 GMT

I01 24 /1.0°W CBS Evening News
I10 22 /53.0°W 60 Minutos (60 Minutes): Noticias (News).

2355 GMT

I08 15 /34.5°W Despedida y Cierre (Close)

WEDNESDAY

0000 GMT

I01 24 /1.0°W CNN Continues
I07 24 /31.0°W Colorin, Colorado (Coloring, Colored): Telenovela para la juventud (Children's progamming).

0025 GMT

I10 22 /53.0°W TV Tiempo (TV Time)

0030 GMT

I10 22 /53.0°W El Auto Fantastico (The Fantastic Auto)

0100 GMT

I01 24 /1.0°W CBS Evening News: West Coast Feed
I07 24 /31.0°W Noche de Estreno (Debut Night)

0130 GMT

I01 24 /1.0°W MacNeil, Lehrer Report
I10 22 /53.0°W Dallas

0230 GMT

I01 24 /1.0°W CNN Continues
I10 22 /53.0°W Edicion Dos: Noticias (News).

0250 GMT

I10 22 /53.0°W Cine de Trasnoche (Movie)

0300 GMT

I07 24 /31.0°W Titulares (Titles): Informativo (Report).

0315 GMT

I07 24 /31.0°W Kenia Sharp Club: Serie (Series).

0330 GMT

I01 24 /1.0°W NBC Tonight Show starring Johnny Carson

0430 GMT

I01 24 /1.0°W CNN Sports Tonite

0500 GMT

I01 24 /1.0°W ABC Nightline

0530 GMT

I01 24 /1.0°W CNN Headline News

0600 GMT

I01 24 /1.0°W AFRTS Sign Off: With advisories if necessary, followed by CNN commerical feed.

1000 GMT

S04 6 /14.0°W Intervision News unilaterals from Afganistan, Mongolia, and Viet Nam

1100 GMT

I05 24 /24.5°W Eurovision Brussels: European News Unilateral Exchanges.
I17 20 /57.0°E Royal Anthem-Holy Koran: Religious talk.

1130 GMT

I05 24 /24.5°W CBS and NBC News Feeds from London

1150 GMT

I17 20 /57.0°E Cartoon: Children's programming.

1230 GMT

I04 17 /21.5°W Zaire TV News
I07 24 /31.0°W Telescuela Tecnica (Technical School): Educativo (Educational programming).
I08 11 /34.5°W Carta de Ajuste (Test Card)

I17 20 /57.0°E Educational Program

1245 GMT

I08 11 /34.5°W Programacion de Cobertura Regional (Program of Regional Coverage)

1300 GMT

I01 24 /1.0°W Sign On
I04 17 /21.5°W Children's Programming
I07 24 /31.0°W Buen Dia Maria (Good Day Maria): Clases de gimasia (Gymnastics classes).
S04 6 /14.0°W UPITN News from London

1315 GMT

S04 6 /14.0°W Intervision News Unilaterals

1330 GMT

I01 24 /1.0°W ABC World News AM

1335 GMT

I04 17 /21.5°W Close
I17 20 /57.0°E Prayers

1340 GMT

I17 20 /57.0°E Arabic Serial

1355 GMT

I08 11 /34.5°W Conexion con la Programacion Nacional (The National program Connection)

1400 GMT

F01 1 /8.0°W AITV News Paris
I01 24 /1.0°W NBC Today Show
I05 24 /24.5°W UPITN News London
I07 13 /31.0°W Color Bars
I07 24 /31.0°W Dibujos Animados (Cartoons).
I08 11 /34.5°W Telediario (Teledaily): Noticias (News).
I10 22 /53.0°W Matinal Infantil (Children's Morning Show)

1430 GMT

I05 24 /24.5°W Visnews for Middle East and Europe
I07 24 /31.0°W Vivir Bien (To Live Well)
I17 20 /57.0°E Cultural Program

1435 GMT

I08 11 /34.5°W Falcon Crest

1500 GMT

I05 24 /24.5°W Eurovision Brussels: European News Unilateral Exchanges.
I07 24 /31.0°W Treinta-Treinta: Noticias (News).
I17 20 /57.0°E News: Local.

1520 GMT

I17 20 /57.0°E SPORTS-Sports Magazine

1530 GMT

I08 11 /34.5°W Viva la Tarde! (Long Live the Afternoon!)
I10 22 /53.0°W Festival de la Una (Festival for One)

1600 GMT

I01 24 /1.0°W CNN Headline News
I04 13 /21.5°W Documentary
I05 24 /24.5°W Eurovision Brussels: European News Unilateral Exchanges.
I07 13 /31.0°W Live Coverage of Libyan "People's Committees"
I07 24 /31.0°W NOVELA-Extranos y Amantes (Strangers and Lovers)
I17 20 /57.0°E Cultural Program

1630 GMT

I01 24 /1.0°W ESPN Sportscenter or CNN Headline News
I04 13 /21.5°W News in English
I08 11 /34.5°W De Aqui Para Alla (From Here To There)

1700 GMT

I01 24 /1.0°W CNN Take Two: Hour 2.
I04 13 /21.5°W Arabian Soap Opera
I04 17 /21.5°W Children's Programming
I05 24 /24.5°W Visnews London: Early evening news feeds for SABC Johannesburg.
I07 24 /31.0°W 20 Mujeres (20 Women): Periodistico (Journalistic).
I08 11 /34.5°W Letra Pequena (Little Letter)
I17 20 /57.0°E News: Arabic.
S04 6 /14.0°W Vremya (Time): The Moscow Evening News, Sports, Weather.

1725 GMT

I08 11 /34.5°W Hola, Chicos! (Hello, Kids!)
I17 20 /57.0°E Arabic Serial

1730 GMT

I08 11 /34.5°W Barrio Sesamo (Sesame Street): Children's programming.
I10 22 /53.0°W Edicion Uno (First Edition): Noticias (News).

1745 GMT

I08 15 /34.5°W Carta de Ajuste (Test Card)
I10 22 /53.0°W Chispita: Teleseie (Teleseries).

1755 GMT

I08 11 /34.5°W SPORTS-Toros (Bullfights)
I08 15 /34.5°W Apertura y Presentacion (Opening)

1800 GMT

I01 24 /1.0°W CNN Headline News
I04 17 /21.5°W Sports
I07 5 /31.0°W Children's Programming
I08 15 /34.5°W Agenda

1810 GMT

I08 15 /34.5°W Curso de Ingles (English Course)

1815 GMT

I10 22 /53.0°W Un Minuto eb la Moda (One Minute in Fashion)

1820 GMT

I10 22 /53.0°W La Feira (The Hustler): Teleserie (Teleseries).

1825 GMT

I08 15 /34.5°W En Marcha (In Progress)

1830 GMT

I01 24 /1.0°W SPORTS-American Interests
I04 13 /21.5°W News in Arabic
I04 17 /21.5°W Zaire TV News
I17 20 /57.0°E English News-Program Review

1845 GMT

I08 15 /34.5°W Arco Iris (Rainbow)

1855 GMT

I04 13 /21.5°W Weather Report
I10 22 /53.0°W Arean 12: Serie policial (Police series).

1900 GMT

I01 24 /1.0°W McLaughlin Group
I04 13 /21.5°W Current Affairs Program
I04 17 /21.5°W French Language Entertainment Program
I07 24 /31.0°W Telejuegos (Telegames): Infantil (Children's programming).
I08 15 /34.5°W Tablon de Anuncios (Announcement Table)
I17 20 /57.0°E Best Sellers

1910 GMT

I05 24 /24.5°W OTI: SIN News.

1930 GMT

I01 24 /1.0°W Entertainment This Week: Entertainment news program from Hollywood, California.
I04 13 /21.5°W Light Entertainment Show
I05 24 /24.5°W RTP News from Lisbon, Portugal
I08 15 /34.5°W Con Las Manos en la Masa (Caught in the Act)

1950 GMT

I08 24 /34.5°W UPITN DSSA News Unilaterals: Including Globo, Canadian CTV, and US network feeds.

1955 GMT

I08 15 /34.5°W SPORTS-Baloncesto, Campeonato de Europa (European Baloncesto Championship)

2000 GMT

I07 13 /31.0°W Libyan TV News
I07 5 /31.0°W Moroccan Soap Opera
I08 11 /34.5°W Telediario (Teledaily): Noticias (News).
I10 22 /53.0°W Dibujos Animados (Cartoons)

2020 GMT

I10 22 /53.0°W MOVIE-Tardes de Cine (The Afternoon Movie)

2030 GMT

I01 19 /1.0°W RTP News from Lisbon, Portugal
I01 24 /1.0°W CNN Headline News
I07 13 /31.0°W Weather
I07 24 /31.0°W Buck Rogers: Serie (Series).
I16 24 /60.0°E Visnews London for Asia and Pacific
I17 20 /57.0°E News in Brief-Holy Koran

2035 GMT

I07 13 /31.0°W Current Affairs program
I08 11 /34.5°W Session de Noche (Night Session)

2045 GMT

I05 24 /24.5°W Visnews London
I17 20 /57.0°E Royal Anthem

2100 GMT

I01 24 /1.0°W CNN Take Two: Hour 1.
I07 13 /31.0°W Light Entertainment Show
I07 5 /31.0°W Marocaine TV News & Weather

2130 GMT

I04 13 /21.5°W Late News in Arabic
I07 24 /31.0°W La Sexta de ATC: Noticias (News).
I07 5 /31.0°W Light Entertainment Program
I08 15 /34.5°W Documental (Documentary)
I16 24 /60.0°E Visnews London

2200 GMT

I01 24 /1.0°W AFRTS Advisory Block: Schedules, advisories and color bars.
I04 13 /21.5°W Close
I05 24 /24.5°W CBS International: News unilaterals to South America.
I07 24 /31.0°W Gente Como la Gente (People Like People): Telecomedia (Telecomedy).
I08 15 /34.5°W Tatuaje (Tattoo)
I08 24 /34.5°W Globo TV NY: News feeds from NY to Rio de Janeiro.

2215 GMT

I04 17 /21.5°W Late News
I07 5 /31.0°W Close

2230 GMT

I01 24 /1.0°W ABC World News Tonight

2240 GMT

I04 17 /21.5°W Close

2245 GMT

I07 13 /31.0°W Close
I10 22 /53.0°W Chispita (Little Spark)

2300 GMT

I01 24 /1.0°W NBC Nightly News
I07 24 /31.0°W Mesa de Noticias (News Desk): Humoristico (Comedy).
I08 15 /34.5°W Enredo (Plot)

2305 GMT

I08 11 /34.5°W Las Cuentas Claras (Clear Accounts)

2325 GMT

I08 15 /34.5°W Resumen Informativo: Noticias (News).

2330 GMT

I01 24 /1.0°W CBS Evening News
I08 11 /34.5°W Telediario (Teledaily): Noticias (News).

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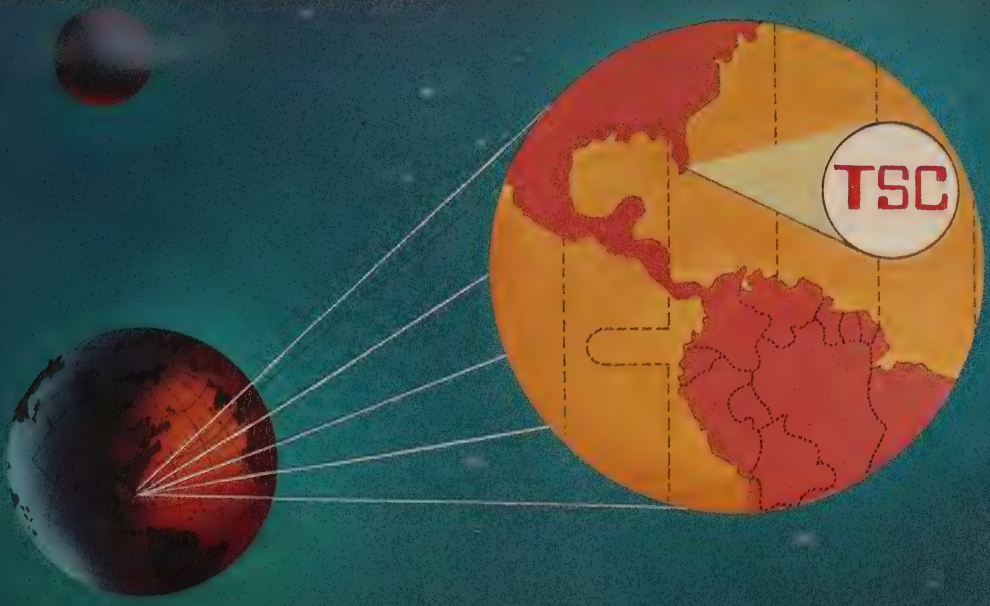

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I10 22 /53.0°W 60 Minutos (60 Minutes): Noticias (News).

2350 GMT

I08 11 /34.5°W Teledeporte (Sports News)

2355 GMT

I08 15 /34.5°W Despedida y Cierre (Close)

THURSDAY

0000 GMT

I01 24 /1.0°W CNN Continues
I07 24 /31.0°W Historias de la Argentina Secreta (Stories of the Secret Argentina): Documental (Documentary).

0005 GMT

I08 11 /34.5°W Testimonio (Testimony)

0010 GMT

I08 11 /34.5°W Despedida y Cierre (Farewell and Sign Off)

0030 GMT

I10 22 /53.0°W Magnum, P.I.: Serie de accion (Action series).

0100 GMT

I01 24 /1.0°W CBS Evening News: West Coast Feed
I07 24 /31.0°W Cordialmente (Cordially).

0130 GMT

I01 24 /1.0°W MacNeil, Lehrer Report
I10 22 /53.0°W Quincy

0230 GMT

I01 24 /1.0°W CNN Continues
I10 22 /53.0°W Edicion Dos: Noticias (News).

0300 GMT

I07 24 /31.0°W Kenia Sharp Club: Serie (Series).

0315 GMT

I10 22 /53.0°W Cine de Trasnoche (Movie)

0330 GMT

I01 24 /1.0°W NBC Tonight Show starring Johnny Carson

0430 GMT

I01 24 /1.0°W CNN Sports Tonite

0500 GMT

I01 24 /1.0°W ABC Nightline
I10 22 /53.0°W Cierre (Close)

0530 GMT

I01 24 /1.0°W CNN Headline News

0600 GMT

I01 24 /1.0°W AFRTS Sign Off: With advisories if necessary, followed by CNN commercial feed.

0915 GMT

I08 11 /34.5°W Carta de Ajuste (Test Card)

0925 GMT

I08 11 /34.5°W Programacion de Cobertura Regional (Program of Regional Coverage)

0930 GMT

I08 11 /34.5°W Santa Misa (Holy Mass)

1000 GMT

I05 24 /24.5°W Eurovision Brussels: European News Unilateral Exchanges.

1030 GMT

I05 24 /24.5°W CBS and NBC News Feeds from London

1100 GMT

I08 11 /34.5°W Concierto (Concert)
I17 20 /57.0°E Royal Anthem-Holy Koran: Religious talk.

1125 GMT

I17 20 /57.0°E Cartoon: Children's programming.

1130 GMT

I08 11 /34.5°W SPORTS-Novillada (Bullfight)

1200 GMT

I17 20 /57.0°E Educational Program

1230 GMT

I04 17 /21.5°W Zaire TV News
I17 20 /57.0°E Indian Film

1300 GMT

I01 24 /1.0°W Sign On
I04 17 /21.5°W Children's Programming
I05 24 /24.5°W UPITN News London
I07 24 /31.0°W SPORTS-Tenis (Tennis)
S04 6 /14.0°W UPITN News from London

1315 GMT

S04 6 /14.0°W Intervision News Unilaterals

1330 GMT

I01 24 /1.0°W ABC World News AM
I05 24 /24.5°W Visnews for Middle East and Europe

1335 GMT

I04 17 /21.5°W Close
I17 20 /57.0°E Prayers

1345 GMT

I08 11 /34.5°W Minutos Musicales (Musical Minutes)

1400 GMT

F01 1 /8.0°W AITV News Paris
I01 24 /1.0°W NBC Today Show
I07 13 /31.0°W Color Bars
I08 11 /34.5°W Telediario (Teledaily)
I10 22 /53.0°W Dibujos Animados (Cartoons)

1425 GMT

I10 22 /53.0°W La Cocina de Monica (Monica's Kitchen)

1430 GMT

I10 22 /53.0°W Mazapan
I17 20 /57.0°E Cultural Program

1435 GMT

I08 11 /34.5°W Largometraje Especial (Special Movie)

1500 GMT

I05 24 /24.5°W Eurovision Brussels: European News Unilateral Exchanges.
I10 22 /53.16128° Festival de la Una (Festival for One)
I17 20 /57.0°E News: Local.

1520 GMT

I17 20 /57.0°E Local Program

1530 GMT

I07 24 /31.0°W Treinta-Treinta: Noticias (News).

1600 GMT

I01 24 /1.0°W CNN Headline News
I04 13 /21.5°W Documentary
I05 24 /24.5°W Eurovision Brussels: European News Unilateral Exchanges.
I07 13 /31.0°W Live Coverage of Libyan "People's Committees"
I07 24 /31.0°W NOVELA-Extranos y Amantes (Strangers and Lovers)
I17 20 /57.0°E English Serial

1620 GMT

I08 11 /34.5°W SPORTS-Ciclismo (Bicycle Races)

1630 GMT

I01 24 /1.0°W SPORTS-ESPN Sportscenter
I04 13 /21.5°W News in English
I08 11 /34.5°W Barrio Sesamo (Sesame Street): Children's programming.

1655 GMT

I08 11 /34.5°W SPORTS-Baloncesto

1700 GMT

I01 24 /1.0°W CNN Take Two: Hour 2
I04 13 /21.5°W Arabian Soap Opera
I04 17 /21.5°W Children's Programming
I05 24 /24.5°W Visnews London: Early evening news feeds for SABC Johannesburg.
I07 24 /31.0°W 20 Mujeres (20 Women): Periodistico (Journalistic).
I10 22 /53.0°W Edicion Uno (First Edition): Noticias (News).
I17 20 /57.0°E News: Arabic.
S04 6 /14.0°W Vremya (Time): The Moscow Evening News, Sports, Weather.

1730 GMT

I10 22 /53.0°W Chispita: Teleserie (Teleseries).

1745 GMT

I08 15 /34.5°W Carta de Ajuste (Test Card)

1755 GMT

I08 15 /34.5°W Apertura y Presentacion (Opening)

1800 GMT

I01 24 /1.0°W CNN Headline News
I04 17 /21.5°W Sports
I07 5 /31.0°W Children's Programming
I08 15 /34.5°W Agenda

1805 GMT

I10 22 /53.0°W Amalia Batista

1810 GMT

I08 15 /34.5°W Curso de Ingles (English Course)

1825 GMT

I08 15 /34.5°W En Marcha (In Progress)

1830 GMT

I01 24 /1.0°W CNN Continues
I04 13 /21.5°W News in Arabic
I04 17 /21.5°W Zaire TV News
I17 20 /57.0°E English News-Program Review

1835 GMT

I08 11 /34.5°W Dibujos Animados (Cartoons)

1845 GMT

I08 15 /34.5°W Arco Iris (Rainbow)

1850 GMT

I08 11 /34.5°W Informativo Juvenil (Youthful Report)

1855 GMT

I04 13 /21.5°W Weather Report

1900 GMT

I01 24 /1.0°W CNN Continues
I04 13 /21.5°W Current Affairs Program
I04 17 /21.5°W French Language Entertainment Program
I07 24 /31.0°W Telejuegos (Telegames): Infantil (Children's programming).
I08 15 /34.5°W A-Uan-Ba-Buluba-Balam-Bambu
I10 22 /53.0°W Fama (Fame): Aventuras (Adventure).

1905 GMT

I08 11 /34.5°W El Arte de Vivir (The Art of Living)

1910 GMT

I05 24 /24.5°W OTI: SIN News.

1930 GMT

I01 24 /1.0°W Solid Gold: American pop music show counts down the top ten tunes of the week.
I04 13 /21.5°W Light Entertainment Show

1950 GMT

I08 24 /34.5°W UPITN DSSA News Unilaterals: Including Globo, Canadian CTV, and US network feeds.

2000 GMT

I07 13 /31.0°W Libyan TV News
I07 5 /31.0°W Moroccan Soap Opera

I08 11 /34.5°W Telediario (Teledaily): Noticias (News).
I08 15 /34.5°W Fila 7 (File 7)

2010 GMT

I10 22 /53.0°W MOVIE-Tardes de Cine (The Afternoon Movie)

2030 GMT

I01 19 /1.0°W RTP News from Lisbon, Portugal
I01 24 /1.0°W CNN Headline News
I07 13 /31.0°W Weather
I07 24 /31.0°W La Pandilla de la Computadora (The Computer Gang): Serie (Series).
I16 24 /60.0°E Visnews London for Asia and Pacific
I17 20 /57.0°E News in Brief-Holy Koran

2035 GMT

I07 13 /31.0°W Current Affairs program
I08 11 /34.5°W El Cuerpo Humano (The Human Body)

2040 GMT

I05 24 /24.5°W Visnews London

2045 GMT

I17 20 /57.0°E Royal Anthem

2100 GMT

I01 24 /1.0°W CNN Take Two: Hour 1
I07 13 /31.0°W Light Entertainment Show
I07 5 /31.0°W Marocaine TV News & Weather

2105 GMT

I08 11 /34.5°W Ahi Te Quiero Ver (I Love To See You There)

2110 GMT

I08 15 /34.5°W Cine Club (Movie Club)

2130 GMT

I04 13 /21.5°W Late News in Arabic
I05 24 /24.5°W Visnews
I07 24 /31.0°W La Sexta de ATC: Noticias (News).
I07 5 /31.0°W Light Entertainment Program
I16 24 /60.0°E Visnews London

2200 GMT

I01 24 /1.0°W AFRTS Advisory Block: Schedules, advisories and color bars.
I04 13 /21.5°W Close
I07 24 /31.0°W Gente Como la Gente (People Like People): Telecomedia (Telecomedy).
I08 24 /34.5°W Globo TV NY: News feeds from NY to Rio de Janeiro.

2205 GMT

I05 24 /24.5°W CBS International: News unilaterals to South America.
I08 11 /34.5°W En Portada (In Front)

2210 GMT

I05 24 /24.5°W NBC News Feeds

2215 GMT

I04 17 /21.5°W Late News
I07 5 /31.0°W Close

2230 GMT

I01 24 /1.0°W ABC World News Tonight

2240 GMT

I04 17 /21.5°W Close

2245 GMT

I07 13 /31.0°W Close

2300 GMT

I01 24 /1.0°W NBC Nightly News
I05 24 /24.5°W UPITN for Latin America
I07 24 /31.0°W Mesa de Noticias (News Desk): Telecomidia (Comedy).
I08 11 /34.5°W Telediario (Teledaily): Noticias (News).

2320 GMT

I08 11 /34.5°W Teledeporte (Sports News)

2330 GMT

I01 24 /1.0°W CBS Evening News
I08 15 /34.5°W Jazz Entre Amigos (Jazz Among Friends)
I10 22 /53.0°W 60 Minutos (60 Minutes): Noticias (News).

2335 GMT

I08 11 /34.5°W Despedida y Cierre (Farewell and Sign Off)

FRIDAY

0000 GMT

I01 24 /1.0°W CNN Continues
I07 24 /31.0°W El Pais Que Tenemos que Cambiar (The Country that We Have to Change): Periodistico (Journalistic).

0005 GMT

I08 15 /34.5°W Resumen Informativo: Noticias (News).

0030 GMT

I10 22 /53.0°W Franja Cultural (Cultural Fringe)

0035 GMT

I08 15 /34.5°W Despedida y Cierre (Close)

0100 GMT

I01 24 /1.0°W CBS Evening News: West Coast Feed
I07 24 /31.0°W Testamentos (Testaments)

0130 GMT

I01 24 /1.0°W MacNeil, Lehrer Report
I10 22 /53.0°W Temple de Acero (Temple of Steel)

0200 GMT

I07 24 /31.0°W Hospital: Serie (Series).

0230 GMT

I01 24 /1.0°W CNN Continues
I10 22 /53.0°W Edicion Dos: Noticias (News).

0300 GMT

I07 24 /31.0°W Titulares (Titles): Informativo (Report).
I10 22 /53.0°W Clasicos del Cine (Movie Classics)

0330 GMT

I01 24 /1.0°W NBC Tonight Show starring Johnny Carson
I07 24 /31.0°W Los Vengadores (The Avengers)

0430 GMT

I01 24 /1.0°W CNN Sports Tonite

0500 GMT

I01 24 /1.0°W ABC Nightline
I10 22 /53.0°W Cierre (Close)

0530 GMT

I01 24 /1.0°W CNN Headline News

0600 GMT

I01 24 /1.0°W AFRTS Sign Off: With advisories if necessary, followed by CNN commercial feed.
I17 20 /57.0°E Royal Anthem

0605 GMT

I17 20 /57.0°E Holy Koran: Religious talk.

0630 GMT

I17 20 /57.0°E Cartoon: Children's programming.

0700 GMT

I17 20 /57.0°E World of Children

0745 GMT

I17 20 /57.0°E Health Program

0800 GMT

I17 20 /57.0°E Prayers

0845 GMT

I17 20 /57.0°E Religious Program

0900 GMT

I17 20 /57.0°E News in Brief

0905 GMT

I17 20 /57.0°E SPORTS-Football

1035 GMT

I17 20 /57.0°E Children's Program: English.

1045 GMT

I08 15 /34.5°W Carta de Ajuste (Test Card)

1055 GMT

I08 15 /34.5°W Apertura y Presentacion (Opening)

1100 GMT

I05 24 /24.5°W Eurovision Brussels: European News Unilateral Exchanges.
I08 15 /34.5°W SPORTS-Tenis (Tennis)
I17 20 /57.0°E English Program

1130 GMT

I05 24 /24.5°W CBS and NBC News Feeds from London

1200 GMT

I17 20 /57.0°E Arabic Film

1230 GMT

I04 17 /21.5°W Zaire TV News
I07 24 /31.0°W Animales, Animales (Animals, Animals): Documental (Documentary).
I08 11 /34.5°W Carta de Ajuste (Test Card)

1245 GMT

I08 11 /34.5°W Programacion de Cobertura Regional (Program of Regional Coverage)

1300 GMT

I01 24 /1.0°W Sign On
I04 17 /21.5°W Children's Programming
I07 24 /31.0°W Buen Dia Maria (Good Day Maria): Clases de gimasia (Gymnastics classes).
S04 6 /14.0°W UPITN News from London

1315 GMT

S04 6 /14.0°W Intervision News Unilaterals

1330 GMT

I01 24 /1.0°W ABC World News AM

1335 GMT

I04 17 /21.5°W Close

1350 GMT

I17 20 /57.0°E Variety

1355 GMT

I08 11 /34.5°W Conexion con la Programacion Nacional (The National program Connection)

1400 GMT

F01 1 /8.0°W AITV News Paris
I01 24 /1.0°W NBC Today Show
I05 24 /24.5°W UPITN News London
I07 13 /31.0°W Color Bars
I07 24 /31.0°W Scuby Doo (Scooby Doo): Dibujos animados (Cartoons).
I08 11 /34.5°W Telediario.Primera Edicion (Teledaily.First Edition)
I10 22 /53.0°W Matinal Infantil (Children's Morning Show)

1430 GMT

I05 24 /24.5°W Visnews for Middle East and Europe
I07 24 /31.0°W Popeye y Sus Amigos (Popeye and His Friends): Dibujos animados (Cartoons).
I08 11 /34.5°W SPORTS-Baloncesto
I10 22 /53.0°W Mi Bella Genio (My Beautiful Genie)

1445 GMT

I17 20 /57.0°E Songs

ATLANTIC OCEAN REGION

All times are Greenwich Meridian time

1500 GMT

I07 24 /31.0°W Vivir Bien (To Live Well)
I17 20 /57.0°E Faces and Events

1505 GMT

I10 22 /53.0°W La Cocina de Monica (Monica's Kitchen)

1510 GMT

I10 22 /53.0°W Festival de la Una (Festival at One): Concursos, canciones y humor (Contests, songs and humor).

1530 GMT

I07 24 /31.0°W Treinta-Treinta: Noticias (News).
I08 11 /34.5°W Falcon Crest

1600 GMT

I01 24 /1.0°W CNN Headline News
I04 13 /21.5°W Documentary
I05 24 /24.5°W Eurovision Brussels: European News Unilateral Exchanges.
I07 13 /31.0°W Live Coverage of Libyan "People's Committees"
I07 24 /31.0°W El Agente de CIPOL (The Agent from CIPOL): Serie (Series).
I17 20 /57.0°E Arabic Serial

1625 GMT

I08 11 /34.5°W SPORTS-Ciclismo (Bicycle Races)

1630 GMT

I01 24 /1.0°W ESPN Sportscenter or CNN Headline News
I04 13 /21.5°W News in English

1635 GMT

I08 11 /34.5°W Asi Es la Opera (So Is the Opera)

1700 GMT

I01 24 /1.0°W CNN Take Two: Hour 2.
I04 13 /21.5°W Arabian Soap Opera
I04 17 /21.5°W Children's Programming
I05 24 /24.5°W Visnews London: Early evening news feeds for SABC Johannesburg.
I07 24 /31.0°W 20 Mujeres (20 Women): Periodistico (Journalistic).
I17 20 /57.0°E News: Arabic.
S04 6 /14.0°W Vremya (Time): The Moscow Evening News, Sports, Weather.

1710 GMT

I10 22 /53.0°W Edicion Uno (First Edition): Noticias (News).

1730 GMT

I08 11 /34.5°W Hola, Chicos! (Hello, Kids!)
I17 20 /57.0°E SPORTS-Wrestling

1735 GMT

I08 11 /34.5°W Barrio Sesamo (Sesame Street): Children's programming.

1740 GMT

I10 22 /53.0°W Bianca Vidal: Serial.

1800 GMT

I04 17 /21.5°W Sports
I07 5 /31.0°W Children's Programming
I08 11 /34.5°W Scooby Doo: Dibujos animados (Cartoons).
I08 15 /34.5°W Agenda

1810 GMT

I08 15 /34.5°W Curso de Ingles (English Course)

1815 GMT

I10 22 /53.0°W Coralito (Little Chorus)

1830 GMT

I01 24 /1.0°W PBS Firing Line
I04 13 /21.5°W News in Arabic
I04 17 /21.5°W Zaire TV News
I08 11 /34.5°W Nosotros (We)
I08 15 /34.5°W La Clave (The Key)
I17 20 /57.0°E News: English.

1855 GMT

I04 13 /21.5°W Weather Report
I08 11 /34.5°W Los Amigos del Valle Verde (Friends of the Green Valley)

1900 GMT

I01 24 /1.0°W CNN Continues
I04 13 /21.5°W Current Affairs Program
I04 17 /21.5°W French Language Entertainment Program
I07 24 /31.0°W Que Se Vengan los Chicos: Infantil (Children's programming).
I10 22 /53.0°W El Hombre Increible (The Incredible Man)
I17 20 /57.0°E Program Review

1905 GMT

I17 20 /57.0°E Arabic Program

1910 GMT

I05 24 /24.5°W OTI: SIN News.

1930 GMT

I01 24 /1.0°W To Be Announced
I04 13 /21.5°W Drama or Action series
I07 24 /31.0°W Telejuegos (Telegames): Infantil (Children's programming).
I08 11 /34.5°W Al Galope (At a Gallop)

1950 GMT

I08 24 /34.5°W UPITN DSSA News Unilaterals: Including Globo, Canadian CTV, and US network feeds.

2000 GMT

I01 24 /1.0°W To Be Announced
I07 13 /31.0°W Libyan TV News
I07 5 /31.0°W Moroccan Soap Opera
I08 11 /34.5°W Telediario (Telediaily): Noticias (News).
I10 22 /53.0°W Dibujos Animados (Cartoons)

2015 GMT

I17 20 /57.0°E News in Brief-Holy Koran

2020 GMT

I10 22 /53.0°W MOVIE-Tardes de Cine (The Afternoon Movie)

2030 GMT

I01 19 /1.0°W RTP News from Lisbon, Portugal
I01 24 /1.0°W CNN Headline News
I07 13 /31.0°W Weather
I16 24 /60.0°E Visnews London for Asia and Pacific

2035 GMT

I07 13 /31.0°W Current Affairs program
I08 11 /34.5°W Como Pedro Por Su Casa

2040 GMT

I05 24 /24.5°W Visnews London

2045 GMT

I17 20 /57.0°E Royal Anthem

2100 GMT

I01 24 /1.0°W CNN Take Two: Hour 1.
I07 13 /31.0°W Light Entertainment Show
I07 5 /31.0°W Marocaine TV News & Weather

2130 GMT

I04 13 /21.5°W Late news in Arabic
I05 24 /24.5°W Visnews
I07 5 /31.0°W Light Entertainment Program
I16 24 /60.0°E Visnews London

2145 GMT

I07 24 /31.0°W La Sexta de ATC: Noticias (News).

2200 GMT

I01 24 /1.0°W AFRTS Advisory Block: Schedules, advisories and color bars.
I04 13 /21.5°W Close
I05 24 /24.5°W CBS International: News unilaterals to South America.
I07 24 /31.0°W Que Dios Se Lo Pague (God Will Pay You)
I08 24 /34.5°W Globo TV NY: News feeds from NY to Rio de Janeiro.
I10 22 /53.0°W Segunda Franja Cultural (Second Cultural Fringe)

2205 GMT

I08 11 /34.5°W Las Aventuras del Bravo Soldado Schweik (The Adventures of Schweik, the Brave Soldier)

2210 GMT

I05 24 /24.5°W NBC News Feeds

2215 GMT

I04 17 /21.5°W Late News
I07 5 /31.0°W Close

2230 GMT

I01 24 /1.0°W ABC World News Tonight

2240 GMT

I04 17 /21.5°W Close

2245 GMT

I07 13 /31.0°W Close

2300 GMT

I01 24 /1.0°W NBC Nightly News
I05 24 /24.5°W UPITN for Latin America
I07 24 /31.0°W Fama (Fame): Serie (Series).
I10 22 /53.0°W La Torre 10 (The Bullfight 10)

2305 GMT

I08 11 /34.5°W Telediario (Telediaily): Noticias (News).

2320 GMT

I08 11 /34.5°W Teledeporte (Sports News)

2330 GMT

I01 24 /1.0°W CBS Evening News
I08 15 /34.5°W Resumen Informativo: Noticias (News).
I10 22 /53.0°W 60 Minutos (60 Minutes): Noticias (News).

SATURDAY

0000 GMT

I01 24 /1.0°W CNN Continues
I07 24 /31.0°W 30 Millones (30 Million): Noticias (News).
I08 15 /34.5°W Despedida y Cierre (Close)

0025 GMT

I08 11 /34.5°W Despedida y Cierre (Farewell and Sign Off)

0030 GMT

I10 22 /53.0°W Noche de Peliculas (Movies Night)

0100 GMT

I01 24 /1.0°W CBS Evening News: West Coast Feed
I07 24 /31.0°W Los Especiales de ATC: Pelicula (Movie).

0130 GMT

I01 24 /1.0°W MacNeil, Lehrer Report

0200 GMT

I10 22 /53.0°W Edicion Dos: Noticias (News).

0230 GMT

I01 24 /1.0°W CNN Continues

0255 GMT

I10 22 /53.0°W Cine Nocturno (Nighttime Movie)

0300 GMT

I07 24 /31.0°W Titulares (Titles): Informativo (Report).

All times are Greenwich Meridian time

0315 GMT

I07 24 /31.0°W **Kenia Sharp Club:** Serie (Series).

0330 GMT

I01 24 /1.0°W **NBC Tonight Show starring Johnny Carson**

0430 GMT

I01 24 /1.0°W **CNN Sports Tonite**

0500 GMT

I01 24 /1.0°W **ABC Nightline**

0530 GMT

I01 24 /1.0°W **CNN Headline News**

0600 GMT

I01 24 /1.0°W **AFRTS Sign Off:** With advisories if necessary, followed by CNN commercial feed.

0945 GMT

I08 11 /34.5°W **Carta de Ajuste (Test Card)**

0955 GMT

I08 11 /34.5°W **Apertura y Presentacion (Opening)**

1000 GMT

I08 11 /34.5°W **La Bola de Cristal (The Crystal Ball)**

1100 GMT

I17 20 /57.0°E **Royal Anthem-Holy Koran:** Religious talk.

1125 GMT

I17 20 /57.0°E **Cartoon:** Children's programming.

1155 GMT

I08 11 /34.5°W **Loteria Nacional (National Lottery)**

1200 GMT

I17 20 /57.0°E **Educational Program**

1205 GMT

I08 11 /34.5°W **Gente Joven (Young People)**

1230 GMT

I04 17 /21.5°W **Zaire TV News**
I17 20 /57.0°E **Program for Children**

1245 GMT

I08 15 /34.5°W **Carta de Ajuste (Test Card)**

1255 GMT

I08 15 /34.5°W **Apertura y Presentacion (Opening)**

1300 GMT

I01 24 /1.0°W **AFRTS Sign On:** Schedules, advisories and color bars.
I04 17 /21.5°W **Children's Programming**
I08 15 /34.5°W **Estadio 2 (Stadium 2)**
I17 20 /57.0°E **Open Seasame:** Children's program in Arabic.
S04 6 /14.0°W **UPITN News from London**

1315 GMT

S04 6 /14.0°W **Intervision News Unilaterals**

1330 GMT

I01 24 /1.0°W **CNN Headline News**
I07 24 /31.0°W **La Fe del Hombre (Man's Faith)**
I08 11 /34.5°W **Las Cortes de Espana (The Courts of Spain)**
I10 22 /53.0°W **Teleduc '84**

1335 GMT

I04 17 /21.5°W **Close**

1340 GMT

I17 20 /57.0°E **Arabic Serial**

1400 GMT

F01 1 /8.0°W **AITV News Paris**
I01 24 /1.0°W **PBS Washington Week In Review**
I07 13 /31.0°W **Color Bars**
I07 24 /31.0°W **Sabado Libre (Free Saturday):** Infantil (Children's programming).
I08 11 /34.5°W **Telediario (Telediaily):** Noticias (News)

1430 GMT

I01 24 /1.0°W **Navy News This Week**
I17 20 /57.0°E **Cultural Program**

1435 GMT

I08 11 /34.5°W **Primera Sesion (First Session)**

1450 GMT

I10 22 /53.0°W **La Naturaleza y El Hombre (Nature and Man)**

1500 GMT

I01 24 /1.0°W **CNN Continues**
I07 24 /31.0°W **Que se Vengan los Chicos (Which Children Will Come):** Infantil (Children's programming).
I17 20 /57.0°E **News:** Local.

1505 GMT

I17 20 /57.0°E **Cultural Program**

1515 GMT

I10 22 /53.0°W **Ciudad Del Sol (City of the Sun):** Documental (Documentary).

1530 GMT

I01 24 /1.0°W **CNN Headline News**

1540 GMT

I10 22 /53.0°W **SPORTS-Deportes Espectaculares (Spectacular Sports)**

1600 GMT

I01 24 /1.0°W **CBS Sports Event**
I04 13 /21.5°W **Documentary**
I07 13 /31.0°W **Live Coverage of Libyan "People's Committees"**
I07 24 /31.0°W **Por Siempre Chaplin (Chaplin Forever):** Secuencias de peliculas de Chalie Chaplin (Sequence of Charlie Chaplin movies).
I17 20 /57.0°E **English Serial**

1630 GMT

I04 13 /21.5°W **News in English**
I08 11 /34.5°W **Desfile Naval (Naval Parade)**

1650 GMT

I10 22 /53.0°W **Sabados Gigantes (Big Saturdays):** Variedades (Variety).

1700 GMT

I01 24 /1.0°W **ABC Wide World of Sports or other major sporting event**
I04 13 /21.5°W **Arabian Soap Opera**
I04 17 /21.5°W **Children's Programming**
I07 24 /31.0°W **El Hombre de la Atlantida (The Man from Atlantis):** Serie (Series).
I17 20 /57.0°E **News:** Arabic.
S04 6 /14.0°W **Vremya (Time):** The Moscow Evening News, Sports, Weather.

1725 GMT

I17 20 /57.0°E **Arabic Serial**

1730 GMT

I08 11 /34.5°W **Los Sabios (The Scholars)**

1800 GMT

I04 17 /21.5°W **Sports**
I07 5 /31.0°W **Children's Programming**
I08 15 /34.5°W **En Paralelo, Los Jovenes (In Parallel, Youths)**

1830 GMT

I04 13 /21.5°W **News in Arabic**
I04 17 /21.5°W **Zaire TV News**
I08 11 /34.5°W **"V"**
I08 24 /34.5°W **NBC Sports NY**
I17 20 /57.0°E **News:** English.

1855 GMT

I04 13 /21.5°W **Weather Report**

1900 GMT

I01 24 /1.0°W **CBS Collegiate basketball or other major sporting event**
I04 13 /21.5°W **Current Affairs Program**
I04 17 /21.5°W **French Language Entertainment Program**
I08 15 /34.5°W **Candilejas (Little Oil Lamps)**
I17 20 /57.0°E **Local Program**

1930 GMT

I04 13 /21.5°W **Drama or Action Series**
I08 11 /34.5°W **Ayer y Hoy de la Aviacion (Yesterday and Today Of Aviation)**

2000 GMT

I07 13 /31.0°W **Libyan TV News**
I07 5 /31.0°W **Moroccan Soap Opera**
I08 11 /34.5°W **Telediario (Telediaily):** Noticias (News).
I08 15 /34.5°W **La Ventana Electronica (The Electronic Window)**

2030 GMT

I01 19 /1.0°W **RTP News from Lisbon, Portugal**
I07 13 /31.0°W **Weather**
I17 20 /57.0°E **News in Brief-Holy Koran**

2035 GMT

I07 13 /31.0°W **Current Affairs program**
I08 11 /34.5°W **Informe Semenal (Weekly Report)**

2040 GMT

I05 24 /24.5°W **Visnews London**

2045 GMT

I17 20 /57.0°E **Royal Anthem**

2100 GMT

I07 13 /31.0°W **Light Entertainment Show**
I07 24 /31.0°W **Dejalo Ser:** Periodistico (Journalistic).
I07 5 /31.0°W **Marocaine TV News & Weather**

2130 GMT

I04 13 /21.5°W **Late News in Arabic**
I07 5 /31.0°W **Light Entertainment Program**

2140 GMT

I08 11 /34.5°W **MOVIE-Sabado Cine (Saturday Cinema)**

2200 GMT

I04 13 /21.5°W **Close**
I05 24 /24.5°W **CBS International:** News unilaterals to South America.
I07 24 /31.0°W **ATC Rally Turismo (ATC Tourist Rally)**

I08 15 /34.5°W **Opera**
I08 24 /34.5°W **Globo TV NY:** News feeds from NY to Rio de Janeiro.

2215 GMT

I04 17 /21.5°W **Late News**
I07 5 /31.0°W **Close**

2240 GMT

I04 17 /21.5°W **Close**

2245 GMT

I07 13 /31.0°W **Close**

2300 GMT

I07 24 /31.0°W **Historias de la Argentina Secreta (Stories of the Secret Argentina):** Documental (Documentary).

2325 GMT

I10 22 /53.0°W **Hasta Manana (Until Tomorrow):** Children's programming.

2330 GMT

I10 22 /53.0°W **Teletrece (Telethirteen)**

2345 GMT

I08 11 /34.5°W **Despedida y Cierre (Farewell and Sign Off)**

The Americas

INTELSAT IVA

Satellite	Location	Tr.#	Tr. Beam	Tr. Type	Polarization/ Center Frequency	Service Description/Country	Audio Info	Estimated Beam-Edge EIRP
I-IVA—F01	31.0 W	20	Global Beam	Half	RH-4095	**Argentina**	Non-video lease	—
I-IVA—F01	31.0 W	24	Global Beam	Full	RH-4055	**Argentina Televisora Color (ATC), Channel 7, Buenos Aires**—South American service	6.4 MHz S/C	23 dBW
I-IVA—F04	21.5 W	1	West Hemi	Half	RH-3733	**Bandeirantes TV, Sao Paulo**—Portuguese-language Brazilian and American entertainment and sports	5.8 MHz S/C	26 dBW
I-IVA—F04	21.5 W	5	West Hemi	Full	RH-3802	**Rede Globo Network, Rio de Janeiro**—Portuguese-language Brazilian and American entertainment and sports	5.8 MHz S/C	26 dBW
I-IVA—F04	21.5 W	9	West Hemi	Full	RH-3885	**Brazil**	Non-video lease FDMA	—
I-IVA—F04	21.5 W	11	Global Beam	Half	RH-3925	**Embratel-Brazil**—Occasional video news, sports feeds for Globo, SBT, and Manchete TV networks	5.8 MHz S/C	19 dBW
I-IVA—F04	21.5 W	14	West Hemi	Full	RH-3975	**Brazil**	Non-video lease FDMA	—
I-IVA—F04	21.5 W	18	West Hemi	Full	RH-4055	**Brazil**	Non-video lease FDMA	—
I-IVA—F04	21.5 W	22	West Hemi	Full	RH-4153	**Brazil**	Brazilian SCPC services—telephony	—

INTELSAT V

I-V—F08	53.0 W	22	Global Beam	Half	RH-4135	**TV Chile, Channel 7, Santiago, Chile**	SCPC	19 dBW
I-V—F08	53.0 W	1	Hemi Beam	Full	RH-3725	**XEW-TV, Channel 2, Mexico City**—Detailed news coverage of international and domestic events	6.2 MHz S/C	29 dBW
I-V—F08	53.0 W	5	Hemi Beam	Full	RH-3805	**Television de la Republica de Mexico**—Privately owned educational network directed to rural America	6.2 MHz S/C	28 dBW
I-V—F08	53.0 W	14	Hemi Beam	Half	RH-3975	**XHDF, Channel 13, Mexico City**—Commercial TV operated by Ministry of Government Affairs	6.2 MHz S/C	29 dBW
I-V—F08	53.0 W	15	Hemi Beam	Half	RH-3995	**XETV, Channel 7, Mexico City**—San Diego, ABC, NBC, and CBS networks received off the air in Tijuana and uplinked by XETV to Mexico City	6.2 MHz S/C	22 dBW
I-V—F08	53.0 W	18	Global Beam	Half	RH-4065	**Denmark SCPC**—Radio Denmark	4049.625 MHz	20 dBW
I-V—F04	34.5 W	24	Global Beam	Half/Full	RH-4177.5	**International Video News Feed**	6.6 MHz S/C	Varies 17 – 24 dBW
I-V—F03	24.5 W	24	Global Beam	Half/Full	RH-4177.5	**Occasional Video**—Major international news feeds	6.6 MHz S/C	Varies 17 – 24 dBW
I-V—F06	18.5 W	24	Global Beam	Half/Full	RH-4177.5	**Occasional Video**—Major international news feeds	6.6 MHz S/C	Varies 17 – 24 dBW
I-V—F02	1.0 W	7	Global Beam	Full	RH-3845	**Norway**	Non-video lease	—
I-V—F02	1.0 W	18	Global Beam	Half	RH-4065	**BrightStar**—Independent international satellite system providing video services between USA and UK	6.625 MHz S/C	18 dBW
I-V-F02	1.0 W	19	Global Beam	Full	RH-4085	**Portugal TV**	6.6 MHz S/C	18 dBW

INTELSAT V

Satellite	Location	Tr.#	Tr. Beam	Tr. Type	Polarization/ Center Frequency	Service Description/Country	Audio Info	Estimated Beam-Edge EIRP
I-V-F02	1.0 W	24	Global Beam	Full	RH-4175	**American Forces Radio and Television Service**—Provides live American programming to servicemen abroad.	6.8 MHz S/C	20 dBW

INTELSAT VA

I-VA—F10	27.5 W	3	West Hemi	Half	RH-3765	**Radio Y Television Peruana, Channel 7**—Lima, Peru, and Cadena 1 TV from Bogota, Colombia	6.6 MHz S/C and/or SCPC	24 dBW
I-VA—F10	27.5 W	5	West Hemi	Full	RH-3825	**Venezolana de Television Caracas**—Entertainment programming and coverage of Latin America affairs	6.2 MHz S/C	26 dBW
I-VA—F10	27.5 W	1	West Hemi	Half	RH-3725	**Inravision, Channel 1**—Bogota, Colombia	SCPC on tr. 9	22 dBW
I-VA—F10	27.5 W	9	West Hemi	Half	RH-3885	**Colombia**—TV Audio	3867 MHz/ SCPC transponder	—

GORIZONT

GORIZONT 7	14.0 W	1	Spot Beam	Full	RH-3675	**I Programma**—Soviet Television, Moscow	7.0 MHz S/C with companding	22 dBW
GORIZONT 7	14.0 W	1	Global Beam	Full	RH-3725	**Occasional Video**	7.5 MHz S/C	28 dBW
GORIZONT 7	14.0 W	4	North Hemi	Full	RH-3775	**Non-video SCPC**—Radio Moscow	3778.975 MHz	—
GORIZONT 7	14.0 W	6	Global Beam	Full	RH-3825	**Intersputnik and O.I.R.T. TV program exchanges**	7.5 MHz S/C	28 dBW
GORIZONT 7	14.0 W	9	North Hemi	Full	RH-3875	**Non-video wideband digital signals**	—	—
GORIZONT 7	14.0 W	11	North Hemi	Full	RH-3925	**Non-video narrowband digital signals**	—	—

BRAZILSAT A1

SBTS A01	65.0 W	1	Spot Beam	Full	V-3720	**Rede Globo Network, Rio de Janeiro**—Portuguese-language Brazilian and American entertainment and sports	S/C	32 dBW
SBTS A01	65.0 W	5	Spot Beam	Full	V-3800	**Bandeirantes TV, Sao Paulo**—Portuguese-language Brazilian and American entertainment and sports	S/C	32 dBW
SBTS A01	65.0 W	11	Spot Beam	Full	V-3920	**Manchete TV**	S/C	32 dBW
SBTS A01	65.0 W	15	Spot Beam	Full	V-4000	**Embratel-Brazil**—Occasional video news and sports feeds	S/C	32 dBW
SBTS A01	65.0 W	18	Spot Beam	Full	V-4060	**Embratel-Brazil**—Occasional video news and sports feeds	S/C	32 dBW
SBTS A01	65.0 W	24	Spot Beam	Full	V-4180	**Embratel-Brazil**—Occasional video news and sports feeds	S/C	32 dBW

TELECOM F1

TELECOM F1	8.0 W	1	Semi-Global	Full	LH-3710	**AITV, Agence d'Images Television Francaise, News**—Paris	6.6 MHz S/C	24 dBW
TELECOM F1	8.0 W	4	Spot Beam	Full	LH-3780	**Non-video TDMA Telephony**	—	—
TELECOM F1	8.0 W	5	Spot Beam	Full	LP-12690	**Occasional Video**	—	40 dBW
TELECOM F1	8.0 W	6	Spot Beam	Full	LP-12732	**Occasional Video**	—	40 dBW

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The Americas

I = INTELSAT (INT)
S = STATSIONAR
F = TELECOM (FRANCE)

The following international satellite programming guide represents a typical TV schedule for 17 satellite transponders. Additional program schedules for other world-class satellite TV services will be added in the months ahead. While *Satellite World* makes every attempt to keep the program listings as current as possible, the reader should be aware that television networks regularly realign their programming, often without prior notice.

Programming times are listed in GMT; each program day begins at 0000 hours. Readers will find that programs listed between 0000 and 0600 GMT will actually air during the evening hours of the previous day according to local time.

ID. NO.	SATELLITE	TR. #	BEAM	SERVICE
I10	Int. V F8	1	Spot Beam	XEW-TV, Channel 2, Mexico City, Mexico
I10	Int. V F8	5	West Hemi	Television de la Republica de Mexicana (TRM)
I10	Int. V F8	14	Spot Beam	XHDF, Channel 13, Mexico City, Mexico
I10	Int. V F8	15	Spot Beam	XETV, Cable Channel 7, Mexico City, Mexico
I10	Int V F8	22	Global	TV Chile, Santiago, Chile
I08	Int. V F4	23 or 24	Global	International News and Sports Feeds including Globo TV New York, Visnews, and UPITN
I07	Int. IVA F1	24	Global	Argentina Televisora Color, Channel 7, Buenos Aires, Argentina
I06	Int. VA F10	1	West Hemi	Inravision, Channel 1, Bogota, Colombia
I06	Int. VA F10	3	West Hemi	RTP, Channel 7, Lima, Peru
I06	Int. VA F10	5	West Hemi	Venezolana de Television, Channel 8, Caracas, Venezuela
I05	Int. V F3	23 or 24	Global	International News and Sports Feeds, including NBC, CBS International, Visnews, and UPITN
I04	Int. V F2	1	West Hemi	Bandeirantes, Sao Paulo, Brazil
I04	Int. V F2	5	West Hemi	Rede Globo, Rio de Janeiro, Brazil
S04	Gorizont 7	6	Global	Intervision News, UPITN News, and Intersputnik program exchanges
F01	Telecom F1	1	Semi-Global	AITV, Paris
I01	Int. IVA F2	19	Global	RTP, Lisbon, Portugal
I01	Int. IVA F2	24	Global	AFRTS (American Forces Radio and Television Service)

THE AMERICAS

All times are Greenwich Meridian time

SUNDAY

0000 GMT

I01 24 /1.0°W SPORTS-ESPN Sports Event
I06 1 /27.5°W Sabados Felices (Happy Saturday)
I06 5 /27.5°W La Noticia (News)
I07 24 /31.0°W Martin Eden: Miniserie (Miniseries).
I10 15 /53.0°W Star Trek: Space adventure.

0025 GMT

I10 22 /53.0°W Visiones (Visions)

0030 GMT

I04 5 /21.5°W Supercine: Filme (Movie).
I06 3 /27.5°W Telediario (Telediaily): Noticias (News).
I06 5 /27.5°W Cine en su Casa (Movie in your House)
I10 22 /53.0°W Noche de Gigantes (Night of Giants)

0100 GMT

I06 1 /27.5°W Noticiero Promec (Promec's News)
I06 3 /27.5°W Cinco Continentes (Five Continents)
I07 24 /31.0°W Fiebre Amarilla (Yellow Fever)
I10 1 /53.0°W Reportaje: Noticias (News).
I10 14 /53.0°W Nostalgia
I10 15 /53.0°W M.A.S.H.: Comedy series.
I10 5 /53.0°W De la Vida de las Mujeres (Of The Lives of Women)

0130 GMT

I06 1 /27.5°W Pelicula (Movie)
I06 3 /27.5°W Cine de Oro Mexicano (Movie of Mexican Gold)
I10 1 /53.0°W 24 Horas (24 Hours): Noticias (News).
I10 15 /53.0°W Alice: Comedy Series.
I10 5 /53.0°W Sonido Optico (Optical Sound)

0200 GMT

I10 1 /53.0°W Festival
I10 15 /53.0°W News
I10 5 /53.0°W Espectaculares del 7 (Channel 7 Spectaculars)

0215 GMT

I04 1 /21.5°W Sabado a Noite no Cinema (Saturday Night Movie)

0230 GMT

I06 1 /27.5°W Yurupari: La Transmision del Arte (Yurupari: the Transmission of Art)
I06 5 /27.5°W Cine Para Adultos (Movie for Adults)
I10 15 /53.0°W That's Incredible
I10 22 /53.0°W Cine de Media Noche (Midnight Movie)1: 2200

0255 GMT

I04 5 /21.5°W MOVIE-Sessao da Gala (The Gala Movie)

0300 GMT

I06 1 /27.5°W NOVELA-Viviana
I10 1 /53.0°W MOVIE-Televicine Presenta (Television Movie Presentation)
I10 14 /53.0°W Siete Dias (Seven Days): Noticias (News).
I10 15 /53.0°W Too Close for Comfort

0315 GMT

I04 1 /21.5°W Cinema na Madrugada: Filmes variados (Movies).

0330 GMT

I01 24 /1.0°W SPORTS-CNN Sports Tonite
I06 3 /27.5°W MOVIE-Cine Estelar (Star Movie)
I07 24 /31.0°W Cine de Trasnoche (Movie)
I10 14 /53.0°W Camara Portatil (Portable Camera)
I10 15 /53.0°W Eye on San Diego

0400 GMT

I01 24 /1.0°W CNN Week in Japan
I06 1 /27.5°W Kojak
I06 5 /27.5°W Despedida
I10 14 /53.0°W Pelicula del Sabado (Saturday's Movie)
I10 15 /53.0°W Cover Up
I10 5 /53.0°W Dia a Dia: Noticiario (News).

0430 GMT

I01 24 /1.0°W CNN Headline News
I06 3 /27.5°W Telediario (Telediaily): Noticias (News).

0445 GMT

I04 5 /21.5°W MOVIE-Coruja Colorida (The Red Owl): Mystery Movie.

0500 GMT

I01 24 /1.0°W AFRTS Sign Off or CNN Headline News
I06 1 /27.5°W Especial de la Noche (Special of the Night)
I10 1 /53.0°W Teleteatro (Movie)
I10 15 /53.0°W Air Wolf
I10 5 /53.0°W Mandarina Mecanica

0530 GMT

I10 5 /53.0°W En Construccion (In Construction)

0600 GMT

I10 1 /53.0°W MOVIE-Cine del Dos (Movie for Two): Pelicula (Movie).
I10 15 /53.0°W Mike Hammer

0615 GMT

I10 14 /53.0°W Letras Vivas (Living Letters)

0645 GMT

I10 14 /53.0°W Misterio en su Casa (Mystery in your House): Miniserie de suspenso (Miniseries of suspense).

0700 GMT

I06 1 /27.5°W Cierre (Close)

0930 GMT

I04 5 /21.5°W Santa Missa Em Seu Lar (Holy Mass)

0945 GMT

I04 1 /21.5°W Padrao (Pattern)

1000 GMT

I04 1 /21.5°W Japan Pop Show: Musicais y variedades (Music and variety).

1030 GMT

I04 5 /21.5°W Globo Rural

1100 GMT

I04 1 /21.5°W A Conquista da Terra (The Earth at Conquest): Jornalistico sobre o campo (Journalism concerning the countryside).
I06 5 /27.5°W La Santa Misa (The Holy Mass): Religioso (Religion).

1125 GMT

I04 5 /21.5°W Som Brasil (Sound Brazil)

1150 GMT

I04 1 /21.5°W O Melhor Negocio (The Better Business): Noticias sobre agro-industrias (Agro-industrial news).

1200 GMT

I04 1 /21.5°W Emporio Brasileiro (Brazilian Emporium)
I06 1 /27.5°W Senal de Prueba (Test Signal)
I06 5 /27.5°W El Fantasmita Gasparin (Caspar, the Friendly Ghost): Dibujos animados (Cartoons).

1210 GMT

I06 1 /27.5°W Musica: Identificacion Cadena Uno (Music: Identification Channel One)

1220 GMT

I04 5 /21.5°W SPORTS-Grande Premio de Belgica de Formula Um (Belgium's Formula One Grand Prize)

1225 GMT

I06 1 /27.5°W Gimnasia Ritmica (Rhythmic Gymnastics): Produccion canadiense de ejercicios aerobicos (Canadian production of aerobic exercises).

1227 GMT

I06 1 /27.5°W Presentacion de Planta: Himno Nacional (Presentation of the Flag and National Hymn)

1230 GMT

I07 24 /31.0°W La Fe del Hombre (Man's Faith)

1245 GMT

I10 22 /53.0°W La Santa Misa (The Holy Mass): Religioso (Religious).

1255 GMT

I06 1 /27.5°W Informativo Juvenil: Educational program for children.

1300 GMT

I01 24 /1.0°W AFRTS Sign On: Schedules, advisories and color bars.
I04 1 /21.5°W Show de Tourismo (Tourism Show)
I06 5 /27.5°W SPORTS-Beisbol de Grandes Ligas (Big League Baseball)
I07 24 /31.0°W Buen Dia, Maria (Good Day, Maria)
I10 1 /53.0°W En Familia (In the Family): Concursos y diversion familiar (Contests and family entertainment).
I10 14 /53.0°W Naranja Dulce (Sweet Orange): Concurso infantil (Children's competition).
I10 15 /53.0°W Odd Couple
I10 5 /53.0°W Matinee Infantil (Children's Matinee)

1325 GMT

I06 1 /27.5°W Animalandia (Animal Land): Programa infantil (Children's programming)

1330 GMT

I01 24 /1.0°W CNN Headline News
I06 3 /27.5°W La Santa Misa (The Holy Mass): Religioso.

1400 GMT

F01 1 /8.0°W AITV News Paris
I01 24 /1.0°W CBS Sunday Morning
I04 1 /21.5°W SPORTS-Futebol (Soccer)
I07 24 /31.0°W SPORTS-Deportes con los Mejores (Sports with the Best)
I10 22 /53.0°W Viva El Deporte (Hurray for Sports)

1415 GMT

I06 3 /27.5°W Campeonato Infantil de Futbol (Children's Championship Soccer)

1425 GMT

I04 5 /21.5°W Festival de Desenhos (Cartoon Festival)
I06 1 /27.5°W Caravana (Caravan): Aventuras en el Oeste americano (Adventures in the American west).

1455 GMT

I04 1 /21.5°W SPORTS-Futebol (Soccer)

1500 GMT

I06 5 /27.5°W SPORTS-Liga Especial de Baloncesto (Special League Basketball)
I10 14 /53.0°W Festival Internacional Cervantino (International Cervantino Festival)
I10 15 /53.0°W Tom and Jerry: Cartoons.
I10 22 /53.0°W Cachureos: Programa infantil (Children's programming).
I10 5 /53.0°W Para Bajitos: Children's programming.

1530 GMT

I01 24 /1.0°W ABC This Week With David Brinkley: U.S. current affairs program with interviews with government officials.
I10 5 /53.0°W Pancho Lopez: Teatro (Theater).

1545 GMT

I04 5 /21.5°W Disneylandia

1550 GMT

I04 5 /21.5°W Benjo

1555 GMT

I06 1 /27.5°W Domingos Latinoamericanos (Latin American Sundays)

1600 GMT

I04 1 /21.5°W SPORTS-Voleibol (Volleyball)

All times are Greenwich Meridian time

I10 1 /53.0°W Hoy Mismo (Today In Itself): Noticias,variedades (News, variety).
I10 14 /53.0°W Tiempo de Crear (Time to Create)
I10 15 /53.0°W Sesame Street: Children's programming.
I10 22 /53.0°W Magnetoscopio Musical
I10 5 /53.0°W Principia la Aventura Interminable: Investigacion cientifica (Scientific investigation).

1615 GMT

I06 1 /27.5°W Chips

1630 GMT

I01 24 /1.0°W CNN Headline News
I10 14 /53.0°W Aqui y Ahora (Here and Now)

1640 GMT

I04 5 /21.5°W Video Show

1645 GMT

I04 1 /21.5°W SPORTS-Copa Brasil de Sinuca

1700 GMT

I01 24 /1.0°W SPORTS-Major Sporting Event
I06 5 /27.5°W SPORTS-Monitor Hipico (Horse Racing Monitor)
I10 14 /53.0°W Viva la Revolucion (Long Live the Revolution)
I10 5 /53.0°W Respuestas (Replies)

1715 GMT

I10 14 /53.0°W Panorama Economico (Economic Panorama): Comentarios (Commentary).

1725 GMT

I04 5 /21.5°W Casal 20 (Couple 20)

1730 GMT

I10 14 /53.0°W A Brazo Partido (With Open Arms)
I10 22 /53.0°W Dibujos Animados (Cartoons).

1745 GMT

I10 1 /53.0°W SPORTS-Futbol Torneo Cuadrangular (Soccer).
I10 14 /53.0°W 20 Mujeres y Un Hombre (20 Women and One Man): Entrevista (Interview).

1800 GMT

I06 1 /27.5°W El Chavo del Ocho (The Buddy of the Eight): Comedia mexicana (Mexican comedy).
I06 3 /27.5°W Jimmy Swaggart: Programa Evangelico (Evangelico program).
I07 24 /31.0°W SPORTS-Tenis Internacional (International Tennis)
I10 15 /53.0°W SPORTS-Sports
I10 5 /53.0°W SPORTS-Beisbol (Baseball)

1830 GMT

I04 1 /21.5°W SPORTS-Brasil vs. Bolivia (Brazil against Bolivia)
I06 1 /27.5°W Siga la Pista (Follow the Track): Concurso (Contest).

1845 GMT

I10 14 /53.0°W Teatro Aventura (Adventura)

1850 GMT

I04 5 /21.5°W SPORTS-Bolivia vs. Brasil

1900 GMT

I06 3 /27.5°W Voley y Canciones
I07 24 /31.0°W SPORTS-Basquet (Basketball)

1930 GMT

I06 1 /27.5°W El Mundo del Espectaculo (The World of Spectacle): Avances de peliculas de estreno, notas dobre futblo, hipica, toros, y videos musicales (Variety).

1945 GMT

I10 14 /53.0°W Pelicula (Movie)

2000 GMT

I01 24 /1.0°W SPORTS-Major Sporting Event
I06 1 /27.5°W Senoras y Senores (Mr. & Mrs.'s): Magazin dominical (Sunday magazine).
I10 1 /53.0°W SPORTS-Round Cero (Round Zero): Boxeo (Boxing).

2015 GMT

I10 1 /53.0°W Para Gente Grande (For BigPeople): Periodismo (Journalism).

2030 GMT

I01 19 /1.0°W RTP News from Lisbon, Portugal
I06 1 /27.5°W SPORTS-Futbol (Soocer)
I10 22 /53.0°W La Pandilla Computarizada (The Computerized Band)

2055 GMT

I04 5 /21.5°W Aguia de Fogo (Eagle of Fire)

2100 GMT

I04 1 /21.5°W SPORTS-Automobilismo (Motoring)
I06 3 /27.5°W Cuentos de Scherezadah (Tales of Scherezadah)
I07 24 /31.0°W La Pelicula Sorpresa (The Surprise Movie)
I10 14 /53.0°W El Mundo Marino de Ramon Bravo (Ramon Bravo's Marine World)
I10 5 /53.0°W Documental (Documentary)

2130 GMT

I04 1 /21.5°W Bicicross
I10 1 /53.0°W Mexico y Sus Monedas (Mexico and Her Money)
I10 14 /53.0°W Cambio (Change)
I10 22 /53.0°W Jappening Con Ja (Happening With Ja)

2155 GMT

I04 5 /21.5°W Os Trapalhoes Melhores Momentos (The Trapalhoes Better Moments)

2200 GMT

I04 1 /21.5°W Aposte Na Lotus
I06 3 /27.5°W Telematch: Game show.
I06 5 /27.5°W Funcion Estelar: Movie.
I10 14 /53.0°W SPORTS-Hacia Mexico 86 (Toward Mexico 86)
I10 5 /53.0°W Corridos Mexicanos (Worldly-wise Mexicans)

2230 GMT

I04 1 /21.5°W S.O.U. Free: Resumo de Semana Olimpica (Resume of Olympics Week)
I10 1 /53.0°W Accion (Action): Resumen de eventos sobresalientes de la semana (Summary of outstanding events of the week).
I10 5 /53.0°W Historia del Cine Mexicano (History of Mexican Cinema)

2300 GMT

I01 24 /1.0°W CNN Headline News
I04 1 /21.5°W SPORTS-Torneio de Natacao (Swimming Tournament)
I04 5 /21.5°W Fantastico, O Show Da Vida (Fantastic, The Show of Life)
I06 1 /27.5°W Los Hart Investigadores (Hart to Hart): Series de aventura (Adventure series).
I06 3 /27.5°W La Vermouth del 7, Exitos del Amor (The Results of Love)
I07 24 /31.0°W Encuentros (Encounters)
I10 15 /53.0°W Wonder Woman
I10 5 /53.0°W Sobrevivencia (Survival): Problemas ecologicos nacionales (National ecological problems).

2330 GMT

I04 1 /21.5°W SPORTS-Bola Ne Mesa (Table Ball)
I10 22 /53.0°W 60 Minutos (60 Minutes): Noticias (News).
I10 5 /53.0°W En la Ciencia y en las Artes (In Science and in the Arts)

MONDAY

0000 GMT

I01 24 /1.0°W CNN Continues
I06 1 /27.5°W Agua, Semilla de la Vida (Water, the Seed of Life)
I06 5 /27.5°W Grandes Miniseries (Grand Miniseries)
I07 24 /31.0°W El Prisma de la Vida (The Prism of Life)
I10 14 /53.0°W SPORTS-Deportv-El Ancho Mundo del Deporte (The Wide World of Sports): Resultadas del futbol, beisbol, y importantes eventos (Results from soccer, baseball, and important events).
I10 15 /53.0°W M.A.S.H.
I10 15 /53.0°W Star Trek
I10 5 /53.0°W Fiesta Charra: Tradicion de nuestro Mexico (Tradition of our Mexico).

0015 GMT

I06 1 /27.5°W Mensaje de Ministro de Agricultura (Message from the Minister of Agriculture)

0030 GMT

I06 1 /27.5°W Malpelo: Pelicula (Movie).
I06 3 /27.5°W Telediario (Teledaily): Noticias (News).
I10 1 /53.0°W Siempre en Domingo (Always on Sunday): Variedades, 4 1
I10 15 /53.0°W Cartoon
I10 22 /53.0°W Best Seller: Pelicula (Movie).

0100 GMT

I01 24 /1.0°W CNN Headline News
I04 1 /21.5°W Apito Final (Final Whistle): Noticias do Esporte (Sports news).
I04 5 /21.5°W Os Gols Do Fantastico (The Fantastic Gols)
I06 1 /27.5°W Noticiero Promec (Promec News)
I06 3 /27.5°W Peru: Tradicion y Realidad (Peru: Tradition and Reality)
I06 5 /27.5°W Serie (Series)
I07 24 /31.0°W Cuentos Para Ver (Tales to See)
I10 15 /53.0°W M.A.S.H.: Comedy.
I10 5 /53.0°W Suena la Rumba: Musica (Music).

0120 GMT

I04 5 /21.5°W R.J.TV: Noticias (News)

0125 GMT

I04 5 /21.5°W Cineclube (Movie Club): Filme (Movie).

0130 GMT

I04 1 /21.5°W Critica E Autocritica (Criticism and Review): Debate.
I06 1 /27.5°W Vientos de Guerra (Winds of War)
I10 15 /53.0°W Alice
I10 5 /53.0°W Cine Mexicano (Mexican Movie)

0155 GMT

I10 14 /53.0°W Resultados del Sorteo (Results of the Lottery)

0200 GMT

I06 3 /27.5°W Teatro Universal (Universal Theater): Pelicula (Movie).
I10 14 /53.0°W Angelica Maria En... (Angelica Maria In...)
I10 15 /53.0°W News

0230 GMT

I06 1 /27.5°W El Precio del Deber (Hill Street Blues): Serie (Series).
I10 15 /53.0°W That's Incredible
I10 22 /53.0°W SPORTS-Zoom Deportivo (Zoom Sports)

0300 GMT

I01 24 /1.0°W SPORTS-CNN Sports Tonite
I06 5 /27.5°W Valores Humanos (Human Values)
I07 24 /31.0°W Kenia Sharp Club: Serie (Series).
I10 14 /53.0°W Siete Dias (Seven Days): Noticias (News).
I10 15 /53.0°W 60 Minutes: News.

0330 GMT

I01 24 /1.0°W AFRTS Sign Off or CNN Headline News
I04 1 /21.5°W TV Informatika (Informative TV): Sobre informatica.
I06 1 /27.5°W Dinastia (Dynasty): Serie (Series).
I06 5 /27.5°W Cine de Suspenso (Suspense Theater)
I10 14 /53.0°W El Ciudadano Infraganti (The Citizen Caught in the Act)

THE AMERICAS

All times are Greenwich Meridian time

I10 5 /53.0°W Festival de Bandas de Oaxaca (Festival of Oaxacan Bands)

0345 GMT

I04 5 /21.5°W Domingo Maior (Major Sunday)

0400 GMT

I06 3 /27.5°W Hoy El Mundo (Today the World)
I10 14 /53.0°W Cine Club (Movie Club)
I10 15 /53.0°W Murder She Wrote
I10 5 /53.0°W Dia a Dia: Noticiario (News).

0430 GMT

I06 1 /27.5°W Semana de Protec-cion a la Naturaleza (Nature Protection Week)
I06 3 /27.5°W Telediario (Tele-daily): Noticias (News).
I06 5 /27.5°W Despedida (Sign Off)
I10 22 /53.0°W Cierre (Close)

0500 GMT

I06 1 /27.5°W Cierre (Close)
I10 1 /53.0°W 60 Minutos (60 Minutes): Reportaje-puede ser repuesto por eventos deportivos (Journalism-may be prempted by sports events).
I10 15 /53.0°W Crazy Like a Fox
I10 5 /53.0°W El Ingenio del Mexicano (The Genius of the Mexican)

0530 GMT

I10 5 /53.0°W R.T.C.

0600 GMT

I10 1 /53.0°W Para Gente Grande (For Big People): Periodismo (Journalism).
I10 14 /53.0°W Aqui y Ahora (Here and Now)
I10 15 /53.0°W Trapper John M.D.

0630 GMT

I10 14 /53.0°W El Libro de Hoy (Today's Book)

0940 GMT

I04 5 /21.5°W Telecurso 1 Grau (Telecourse, 1st Level)

0945 GMT

I04 1 /21.5°W Programa Jimmy Swaggart (Jimmy Swaggart): Religioso (Religious).

0950 GMT

I04 5 /21.5°W Telecurso 2 Grau (Telecourse, 2nd Level)

1000 GMT

I04 5 /21.5°W Bom Dia, Brasil (Good Morning, Brazil): Economico (Economics).

1015 GMT

I04 1 /21.5°W Qualificacao Profissional (Professional Qualifications): Educativo (Educational).

1030 GMT

I04 1 /21.5°W Show de Desenhos (Cartoons)
I04 5 /21.5°W Bom Dia, Brasil (Good Morning, Brazil): Economico (Economics).

I06 5 /27.5°W Hola, Que Tal! (Hello, How's It Going!)

1100 GMT

I04 5 /21.5°W TV Mulher (TV Woman)
I05 24 /24.5°W Eurovision Brussels: European News Unilateral Exchanges.

1130 GMT

I04 1 /21.5°W Ao Despertar da Fe (To Awaken Faith): Religioso (Religious).
I05 24 /24.5°W CBS and NBC News Feeds from London

1200 GMT

I04 1 /21.5°W Ella (She): Programa feminino (Women's program).
I10 5 /53.0°W El Hombre y El Campo (Man and the Country): Informacion agropecuaria (Farming information).

1230 GMT

I04 5 /21.5°W Balao Magico (The Magic Balloon): Desenhos (Cartoons).
I07 24 /31.0°W Telescuela Tecnica (Technical TV School)
I10 5 /53.0°W Capacitacion (Preparation)

1300 GMT

I01 24 /1.0°W Sign On
I07 24 /31.0°W Buen Dia Maria (Good Day Maria): Clases de gimasia (Gymnastics classes).
I10 1 /53.0°W Hoy Mismo (Today In Itself): Noticias, variedades (News, variety).
I10 14 /53.0°W Desde Temprano (Since Early): Revista noticiera, cultural y deportiva (News reviews, cultural, sports reviews).
I10 15 /53.0°W News
I10 5 /53.0°W Secundaria Intensiva (Intensive High School)
S04 6 /14.0°W UPITN News From London

1315 GMT

S04 6 /14.0°W Intervision News Unilaterals

1330 GMT

I01 24 /1.0°W ABC World News AM

1400 GMT

F01 1 /8.0°W AITV News Paris
I01 24 /1.0°W NBC Today Show
I04 1 /21.5°W A Marvilhosa Cozinha de Ofelia (Ofelia's Marvelous Kitchen): Culinaria (Culinary arts).
I05 24 /24.5°W UPITN News London
I06 5 /27.5°W La Abejita Maya (Maya, the Little Bee)
I07 24 /31.0°W Popeye y Sus Amigos (Popeye and His Friends): Dibujos animados (Cartoons).
I10 22 /53.0°W Matinal Infantil (Children's Morning Show)
I10 5 /53.0°W Telesecundaria (Tele-High School)

1425 GMT

I10 22 /53.0°W La Cocina de Monica (Monica's Kitchen)

1430 GMT

I05 24 /24.5°W Visnews for Middle East and Europe
I06 5 /27.5°W Asi Es la Vida (So Is Life)
I07 24 /31.0°W Vivir Bien (To Live Well)
I10 15 /53.0°W Sun Up San Diego
I10 22 /53.0°W Mazapan

1445 GMT

I06 1 /27.5°W Telemach (Telematch)

1455 GMT

I04 1 /21.5°W Boa Vontade (Good Will): Religioso (Religious).

1500 GMT

I04 1 /21.5°W SPORTS-Esporte Total (All Sports)
I06 5 /27.5°W Familia (Family)
I07 24 /31.0°W Treinta-Treinta: Noticias (News).
I10 22 /53.0°W El Festival de la Una (Festival for One)

1530 GMT

I04 1 /21.5°W Amor (Love): Variedades (Variety show).
I04 5 /21.5°W R.J. TV: Noticias (News).
I10 15 /53.0°W The New $25,000 Pyramid

1545 GMT

I04 5 /21.5°W SPORTS-TV Globo Esporte (World Sports): Noticias y esporte (News and sports).

1600 GMT

I01 24 /1.0°W CNN Headline News
I04 5 /21.5°W Hoje (Today)
I05 24 /24.5°W Eurovision Brussels: European News Unilateral Exchanges.
I06 5 /27.5°W La Noticia: News.
I07 24 /31.0°W NOVELA-Extranos y Amantes (Strange y Lovers)

1630 GMT

I04 1 /21.5°W TV Crianca (Children's TV)
I04 5 /21.5°W NOVELA-Vale a Pena Ver de Novo (It's Worth the Trouble to Look Again)
I06 1 /27.5°W NOVELA-Dancin' Days
I06 3 /27.5°W Novela
I06 5 /27.5°W Almorzando con Orlando (Lunching With Orlando)
I10 15 /53.0°W Press Your Luck

1700 GMT

I01 24 /1.0°W CNN Take Two: Hour 2.
I05 24 /24.5°W Visnews London: Early evening news feeds for SABC Johannesburg.
I06 1 /27.5°W Teatro (Theater)
I07 24 /31.0°W 20 Mujeres (20 Women): Periodistico (Journalistic).
I10 1 /53.0°W Vida Diaria (Living Diary)
I10 14 /53.0°W Sal y Pimienta (Salt and Pepper)
I10 22 /53.0°W Edicion Uno (First Edition): Noticias (News).
S04 6 /14.0°W Vremya (Time): The Moscow Evening News, Sports, Weather.

1730 GMT

I04 5 /21.5°W Sessao da Tarde (Afternoon Session)
I06 1 /27.5°W Noticias Uno: News.
I10 14 /53.0°W Ninos, Ninos, Ninos (Children, Children, Children)
I10 22 /53.0°W Chispita: Teleserie (Teleseries).

1800 GMT

I01 24 /1.0°W CNN Headline News
I06 1 /27.5°W Telenovela Regional (Regional Telenovela)
I06 5 /27.5°W El Encuentro (The Encounter)
I10 14 /53.0°W La Novela (The Novel)
I10 15 /53.0°W The Price is Right: Game show.
I10 22 /53.0°W Un Minuto en la Moda (One Minute in Fashion)

1805 GMT

I10 22 /53.0°W Amalia Batista: Teleserie (Teleseries).

1830 GMT

I01 24 /1.0°W 60 Minutes
I06 1 /27.5°W Matematicas (Mathematics)
I10 1 /53.0°W Club del Hogar (Home Club)

1850 GMT

I06 1 /27.5°W Avancemos (Let's Advance)

1900 GMT

I06 5 /27.5°W La Sultana
I07 24 /31.0°W Telejuegos (Telegames): Infantil (Children's programming).
I10 14 /53.0°W Artesanos y Orfebres (Artisians and Silversmiths)
I10 15 /53.0°W NOVELA-The Young and Restless
I10 22 /53.0°W Hombre Nuclear (Nuclear Man): Serie de accion (Action series).

1910 GMT

I05 24 /24.5°W OTI: SIN News.
I06 1 /27.5°W Discubro Mi Mundo (I Discover My World)

1930 GMT

I01 24 /1.0°W Meet the Press
I04 5 /21.5°W Sessao Aventura (Adventure Session)
I06 1 /27.5°W Caminito Alegre (Happy Little Road)
I10 14 /53.0°W Vamos a Todas Partes (Let's Go Everywhere)

1950 GMT

I06 1 /27.5°W Mi Universo (My Universe)
I08 24 /34.5°W UPITN DSSA News Unilaterals: Including Globo, Canadian CTV, and US network feeds.

2000 GMT

I01 24 /1.0°W Face the Nation
I06 3 /27.5°W Barba Papa
I06 5 /27.5°W Angel, La Nina de las Flores (Angel, the Flower Child)
I10 1 /53.0°W 24 Horas de la Tarde (24 Hours in the Afternoon): Noticias (News).

I10 14 /53.0°W Primera Edicion (First Edition): Noticias (News).
I10 15 /53.0°W News
I10 5 /53.0°W El Que Sabe Sabe (He Who Knows Knows)

2010 GMT

I10 22 /53.0°W Tardes de Cine (Afternoon Movie)

2015 GMT

I04 5 /21.5°W Caso Verdade (True Case): Dramatic series.

2020 GMT

I06 1 /27.5°W Descubro Mi Mundo (I Discover My World)

2030 GMT

I01 19 /1.0°W RTP News from Lisbon, Portugal
I01 24 /1.0°W CNN Headline News
I06 3 /27.5°W Magnificos Justicietos (Austere Magnificents)
I06 5 /27.5°W La Pequena Casa de la Pradera (Little House on the Prairie)
I07 24 /31.0°W El Auto Fantastico (The Fantastic Auto): Serie (Series).
I10 1 /53.0°W Videoexitos (Video Outcomes)
I10 14 /53.0°W El Bazar (The Bazaar): Programa social (Social program).
I10 5 /53.0°W Documental (Documentary)

2035 GMT

I06 1 /27.5°W Caminito Alegre (Happy Little Road)

2040 GMT

I05 24 /24.5°W Visnews London

2045 GMT

I10 5 /53.0°W Partidos Politicos (Political Parties)

2055 GMT

I04 5 /21.5°W NOVELA-A Gata Comeu

2100 GMT

I01 24 /1.0°W CNN Take Two: Hour 1.
I04 1 /21.5°W Jeannie E um Genio (I Dream of Jeannie)
I06 3 /27.5°W Esper
I10 14 /53.0°W Ocio y Cultura (Leisure and Culture): Literatura, cine, danza, opera, deportes, entrevistas. Salir de Perete (literature, movies, dance, opera, sports, interviews)
I10 15 /53.0°W NOVELA-As the World Turns
I10 5 /53.0°W Guia de Cada Dia (Daily Guide)

2130 GMT

I04 1 /21.5°W A Feiticeira: Serie (Series).
I06 3 /27.5°W Mounstruos del Espacio (Monsters of Space)
I06 5 /27.5°W Ocho Son Suficientes (Eight is Enough)
I07 24 /31.0°W La Sexta de ATC: Noticias (News).
I10 1 /53.0°W MOVIE-Nuestro Cine Presenta...La Risa en Su Casa (Our Movie Presentation...Laughter in Your House)
I10 14 /53.0°W La Guia de Cada Dia (Each Day's Guide)
I10 15 /53.0°W Capitol
I10 5 /53.0°W Pequenos Viajeros (Little Travelers)

2140 GMT

I05 24 /24.5°W Visnews

2150 GMT

I04 5 /21.5°W NOVELA-Um Sonho a Mais (Another Dream)

2200 GMT

I01 24 /1.0°W AFRTS Advisory Block: Schedules, advisories and color bars.
I04 1 /21.5°W O Gordo E O Magro (Laurel and Hardy): Serie (Series).
I05 24 /24.5°W CBS International: News unilaterals for South America.
I06 1 /27.5°W Pequenos Gigantes (Little Giants)
I06 3 /27.5°W Teleidiomas (Telelanguage)
I07 24 /31.0°W Gente Como la Gente (People Like People): Telecomedia (Comedy).
I08 24 /34.5°W Globo TV NY: News feeds from NY to Rio de Janeiro.
I10 14 /53.0°W El Capitan Peligro (Captain Danger): Dibujos animados (Cartoons).
I10 15 /53.0°W NOVELA-Guiding Light
I10 22 /53.0°W Segunda Franja Cultural (Second Cultural Fringe)
I10 5 /53.0°W El Hada Chappie (Chappie the Fairy): Dibujos animados (Cartoons).

2210 GMT

I05 24 /24.5°W NBC News Feeds

2215 GMT

I04 1 /21.5°W Jornal do Rio: Noticias (News).

2230 GMT

I01 24 /1.0°W ABC World News Tonight
I04 1 /21.5°W Jornal Bandeirantes: Noticias nacionais y internacionais (National and international news).
I06 1 /27.5°W Fantasia: Musical.
I06 3 /27.5°W Gente del Manana (Tomorrow's People)
I06 5 /27.5°W Cine Cine (Movie)
I10 14 /53.0°W La Casa de Paco (Paco's House)
I10 5 /53.0°W Mi Mundo de Cabeza: Cuentos clasicos infantiles (Classic children's tales).

2245 GMT

I04 5 /21.5°W R.J. TV: Noticias (News).

2255 GMT

I04 5 /21.5°W Jornal Nacional (National Journal): Noticias (News).

2300 GMT

I01 24 /1.0°W NBC Nightly News
I04 1 /21.5°W Guerra, Sombra e Agua Fresca (War, Shade and Fresh Water): humoristico (Humor).
I05 24 /24.5°W UPITN for Latin America
I06 1 /27.5°W Porque Usted lo Pregunto (Because You Asked It)
I06 3 /27.5°W Enciclopedia Britannica (Encyclopedia Britannica)
I07 24 /31.0°W Mesa de Noticias (News Desk): humoristico (Comedy).
I10 1 /53.0°W El Tesoro del Saber (The Treasure of Knowledge)
I10 14 /53.0°W El Tianguis (The Market)
I10 15 /53.0°W Hour Magazine
I10 22 /53.0°W El Show de los Muppets (The Muppet Show)
I10 5 /53.0°W Sabias Tu Que... (You Know That...)

2325 GMT

I04 5 /21.5°W Corpo a Corpo (Body to Body)

2330 GMT

I01 24 /1.0°W CBS Evening News
I04 1 /21.5°W Oito E Meia (Eight and a Half): Variedades (Variety show).
I06 1 /27.5°W Diez Mejores de la Musica (Top Ten Hits)
I06 3 /27.5°W Disco Club: Pop music videos.
I10 1 /53.0°W NOVELA-Abandonada (Abandoned)
I10 14 /53.0°W NOVELA-Lupita
I10 22 /53.0°W 60 Minutos (60 Minutes): Noticias (News).
I10 5 /53.0°W Matices

TUESDAY

0000 GMT

I01 24 /1.0°W CNN Continues
I06 1 /27.5°W Noticiero 24 Horas (24 Hours): Noticias (News).
I06 5 /27.5°W Las Noticias de VTV (News From VTV)
I07 24 /31.0°W Pequena Gloria (Little Gloria): Miniserie (Miniseries).
I10 1 /53.0°W NOVELA-Principessa
I10 14 /53.0°W Musica y Algo Mas (Music and Something More)
I10 15 /53.0°W M.A.S.H.: Comedy.
I10 5 /53.0°W Especial R.T.C. (Special R.T.C.)

0005 GMT

I04 1 /21.5°W Jornal da Copa: Boletim informativo sobre o Mundial do Mexico (Mexican news).

0015 GMT

I04 1 /21.5°W Segunda Sem Lei: Filmes (Western movies).

0020 GMT

I04 5 /21.5°W Viva o Gordo

0025 GMT

I06 1 /27.5°W El Minuto De Dios (One Minute for God)

0030 GMT

I06 1 /27.5°W Hechos y Acciones (Deeds and Actions)
I06 3 /27.5°W Telediario (Telediaily): Noticias (News).
I06 5 /27.5°W Dossier
I10 1 /53.0°W NOVELA-Los Anos Pasan (The Years Pass)
I10 15 /53.0°W Cartoon
I10 22 /53.0°W Marca Registrada (Noteworthy Recording)
I10 5 /53.0°W Hacia El Ano 2000 (Towards the Year 2000)

0100 GMT

I01 24 /1.0°W MacNeil, Lehrer Report
I06 1 /27.5°W Chespirito
I06 3 /27.5°W La Baronesa Di Carini (The Baroness Di Carini)
I06 5 /27.5°W Baila Conmigo (Dance With Me)
I07 24 /31.0°W Interpelacion (Questioning): Peridoistico
I10 1 /53.0°W NOVELA-Juana Iris
I10 14 /53.0°W Historia de un Cantar (History of a Singer)
I10 15 /53.0°W Buck Rogers
I10 5 /53.0°W La Hazana de Mexico (Mexico's Feat)

0115 GMT

I04 5 /21.5°W Sangue, Suor E Lagrimas (Blood, Sweat, and Tears)

0130 GMT

I10 1 /53.0°W Xe Tu Sueno Possible (Xe Tu Possible Dream): Concurso (Contest).

0135 GMT

I06 1 /27.5°W Concentrese (Concentration): Programa concurso

0200 GMT

I01 24 /1.0°W CNN Headline News
I06 3 /27.5°W Los Rivales de Sherlock Holmes (The Rivals of Sherlock Holmes)
I06 5 /27.5°W Dallas
I10 1 /53.0°W 24 Horas Informa: Noticias (News).
I10 14 /53.0°W La Vida de Verdi (Verdi's Life)
I10 15 /53.0°W NBC News
I10 5 /53.0°W SPORTS-Sobre El Terreno de Juego (On the Gamefield)

0205 GMT

I10 1 /53.0°W Chespirito: Comedia (Comedy).

0215 GMT

I04 1 /21.5°W Jornal do Rio: Noticias (News).
I04 5 /21.5°W Jornal da Globo (World Journal): Noticias (News).

0225 GMT

I04 1 /21.5°W Dinheiro (Money): Economia (Economy).

0230 GMT

I04 1 /21.5°W Acao e Investimento (Stocks and Investments):
I06 1 /27.5°W Noticiero TV Hoy (Today's TV News)
I07 24 /31.0°W Fuera de Broma (All Joking Aside): Humoristico (Comedy).
I10 15 /53.0°W That's Incredible

0245 GMT

I04 5 /21.5°W R.J. TV: Noticias
I10 22 /53.0°W Edicion Dos (Edition Two): Noticias (News).

THE AMERICAS

All times are Greenwich Meridian time

0250 GMT

I04 5 /21.5°W Festival de Sucessos (Hit Festival)

0300 GMT

I01 24 /1.0°W SPORTS-CNN Sports
I04 1 /21.5°W Sessao Especial (Special Session)
I06 1 /27.5°W Telenovela Nacional (National Telenovela)
I06 3 /27.5°W Cine Como En El Cine (Movie Like At The Movies)
I06 5 /27.5°W La Entrevista de Hoy (Today's Interview)
I07 24 /31.0°W Titulares (Titles): Informativo (Report).
I10 1 /53.0°W La Nueva Carabina de Amborsio (Ambrosio's New Rifle): Comedia musical
I10 14 /53.0°W Siete Dias (Seven Days): Noticias (News).
I10 15 /53.0°W Bossom Bodies

0310 GMT

I10 22 /53.0°W Clasicos del Cine (Movie Classics)

0315 GMT

I06 5 /27.5°W Serie (Series)

0330 GMT

I01 24 /1.0°W NBC Tonight Show starring Johnny Carson
I06 1 /27.5°W Nostalgia
I10 1 /53.0°W NOVELA-Tu O Nadie (You or Nobody)
I10 14 /53.0°W Especial R.T.C. (Special R.T.C.)
I10 15 /53.0°W San Diego At Large

0355 GMT

I10 1 /53.0°W Avance de 24 Horas (Advance of 24 Hours)

0400 GMT

I06 1 /27.5°W Kung Fu
I10 1 /53.0°W NOVELA-Angelica
I10 14 /53.0°W Largo Metraje (Long Footage)
I10 15 /53.0°W Scarecrow and Mrs. King
I10 5 /53.0°W Dia a Dia: Noticiario

0430 GMT

I01 24 /1.0°W CNN Headline News
I06 3 /27.5°W Telediario (Telediaily): Noticias (News).
I10 1 /53.0°W 24 Horas (24 Hours): Noticiario (News).

0500 GMT

I01 24 /1.0°W ABC Nightline
I06 1 /27.5°W Cierre y Himno Nacional (Close and National Hymn)
I10 15 /53.0°W Kate and Allie
I10 22 /53.0°W Cierre (Close)
I10 5 /53.0°W Con "N" de Nacho: Musica y comedia
I10 5 /53.0°W La Entrevista de Hoy (Today's Interview)

0515 GMT

I10 5 /53.0°W Cine Mexicano (Mexican Movie)

0530 GMT

I01 24 /1.0°W CNN Headline News
I10 1 /53.0°W Monedas Mexicanas Famosas (Famour Mexican Coins)
I10 15 /53.0°W Newhart

0600 GMT

I01 24 /1.0°W AFRTS Sign Off or CNN Headline News
I10 1 /53.0°W Cine del Dos (Movie for Two)
I10 14 /53.0°W Un Dia un Escritor (One Day a Writer)
I10 15 /53.0°W Cagney and Lacy

0630 GMT

I10 14 /53.0°W Punto de Vista (Point of View)

0700 GMT

I10 14 /53.0°W Ultima Edicion (Last Edition): Noticias (News).

0940 GMT

I04 5 /21.5°W Telecurso 1 Grau (Telecourse, 1st Level)

0945 GMT

I04 1 /21.5°W Programa Jimmy Swaggart: Religioso (Religious).

0955 GMT

I04 5 /21.5°W Telecurso 2 Grau (Telecourse, 2nd Level)

1000 GMT

I04 5 /21.5°W Bom Dia, Brasil (Good Morning, Brazil): Economico (Economics).

1015 GMT

I04 1 /21.5°W Qualificacao Profissional (Professional Qualifications): Educativo

1030 GMT

I04 1 /21.5°W Show de Desenhos (Cartoons).
I04 5 /21.5°W Bom Dia, Brasil (Good Morning, Brazil): Economico (Economics).
I06 5 /27.5°W Hola, Que Tal! (Hello, How's It Going!)

1100 GMT

I04 5 /21.5°W TV Mulher (TV Woman)
I05 24 /24.5°W Eurovision Brussels: European News

1130 GMT

I04 1 /21.5°W Ao Despertar da Fe (To Awaken Faith): Religioso
I05 24 /24.5°W CBS and NBC News Feeds from London

1200 GMT

I04 1 /21.5°W Ella (She): Programa feminino (Women's program).
I10 5 /53.0°W El Hombre y El Campo (Man and the Country): Informacion agropecuaria (Farming information).

1230 GMT

I04 5 /21.5°W Balao Magico (The Magic Balloon): Desenhos
I07 24 /31.0°W Telescuela Tecnica (Technical TV School)
I10 5 /53.0°W Capacitacion (Preparation)

1300 GMT

I01 24 /1.0°W Sign On
I07 24 /31.0°W Buen Dia Maria (Good Day Maria): Clases de gimasia (Gymnastics classes).
I10 1 /53.0°W Hoy Mismo (Today In Itself): Noticias, variedades
I10 14 /53.0°W Desde Temprano (Since Early): Revista noticiera, cultural y deportiva (News reviews, cultural, sports reviews).
I10 15 /53.0°W News
I10 5 /53.0°W Secundaria Intensiva (Intensive High School)
S04 6 /14.0°W UPITN News from London

1315 GMT

S04 6 /14.0°W Intervision News Unilaterals

1330 GMT

I01 24 /1.0°W ABC World News AM

1400 GMT

F01 1 /8.0°W AITV News Paris
I01 24 /1.0°W NBC Today Show
I04 1 /21.5°W A Maravilhosa Cozinha de Ofelia (Ofelia's Marvelous Kitchen)
I05 24 /24.5°W UPITN News London
I06 5 /27.5°W La Abejita Maya (Maya, the Little Bee)
I07 24 /31.0°W Popeye y Sus Amigos (Popeye and His Friends): Dibujos animados
I10 22 /53.0°W Matinal Infantil (Children's Morning Show)
I10 5 /53.0°W Telesecundaria (Tele-High School)

1430 GMT

I05 24 /24.5°W Visnews for Middle East and Europe
I06 5 /27.5°W Asi Es la Vida (So Is Life)
I07 24 /31.0°W Vivir Bien (To Live Well)
I10 15 /53.0°W Sun Up San Diego

1445 GMT

I06 1 /27.5°W Prisma (Prism)

1455 GMT

I04 1 /21.5°W Boa Vontade (Good Will): Religioso (Religious).

1500 GMT

I04 1 /21.5°W SPORTS-Esporte Total (Total Sports)
I06 5 /27.5°W Familia (Family)
I07 24 /31.0°W Treinta-Treinta: Noticias (News).

1530 GMT

I04 1 /21.5°W Amor (Love): Variedades (Variety).
I04 5 /21.5°W R.J. TV: Noticias
I10 15 /53.0°W The New $25,000 Pyramid
I10 22 /53.0°W Festival de la Una (Festival for One)

1545 GMT

I04 5 /21.5°W SPORTS-TV Globo Esporte (World Sports): Noticias y esporte (News and sports).

1600 GMT

I01 24 /1.0°W CNN Headline News
I04 5 /21.5°W Hoje (Today)
I05 24 /24.5°W Eurovision Brussels: European News Unilateral Exchanges.
I06 5 /27.5°W La Noticia: News.
I07 24 /31.0°W NOVELA-Extranos y Amantes (Strangers and Lovers)

1630 GMT

I01 24 /1.0°W SPORTS-ESPN Sportscenter
I04 1 /21.5°W TV Crianca (Childrens' TV)
I04 5 /21.5°W NOVELA-Vale a Pena Ver de Novo (It's Worth the Trouble to Look Again)
I06 1 /27.5°W NOVELA-Dancin'Days)
I06 3 /27.5°W Novela
I06 5 /27.5°W Almorzando con Orlando (Lunching With Orlando)
I10 15 /53.0°W Press Your Luck

1700 GMT

I01 24 /1.0°W CNN Take Two: Hour 2.
I05 24 /24.5°W Visnews London: Early evening news feeds for SABC Johannesburg.
I06 1 /27.5°W Saul en la Olla (Saul in the Pot)
I07 24 /31.0°W 20 Mujeres (20 Women): Periodistico
I10 1 /53.0°W Vida Diaria (Living Diary)
I10 14 /53.0°W Sal y Pimienta (Salt and Pepper)
S04 6 /14.0°W Vremya (Time): The Moscow Evening News, Sports, Weather.

1730 GMT

I04 5 /21.5°W Sessao da Tarde (Afternoon Session)
I06 1 /27.5°W Noticias Uno (News One)
I10 22 /53.0°W Edicion Uno (First Edition): Noticias (News).

1745 GMT

I10 22 /53.0°W Chispita: Teleserie

1800 GMT

I01 24 /1.0°W CNN Headline News
I06 1 /27.5°W Telenovela Regional (Regional Telenovela)
I06 5 /27.5°W El Encuentro (The Encounter)
I10 14 /53.0°W La Novela (The Novel)
I10 15 /53.0°W The Price is Right:

1815 GMT

I10 22 /53.0°W Un Minuto en la Moda (One Minute in Fashion)

I10 22 /53.0°W La Feira (The Hustler)

1830 GMT

I06 1 /27.5°W Frances
I10 1 /53.0°W Club del Hogar (The Home Club): Variedades, humorismo (Varieties, humor).
I10 14 /53.0°W Un Cuadro Nos Visita (A Painting Comes to Visit): Arte (Art).

1855 GMT

I10 22 /53.0°W Los Poderes de Matthew Star (The Powers of Matthew Star): Serie de aventuras y ficcion (Adventure series).

1900 GMT

I01 24 /1.0°W CNN Continues
I06 1 /27.5°W Hacia la Ciencia (About Science)
I06 5 /27.5°W La Sultana

All times are Greenwich Meridian time

I07 24 /31.0°W Telejuegos (Telegames): Infantil (Children's programming).
I10 14 /53.0°W El Proyecto del Dia (The Project of the Day)
I10 15 /53.0°W NOVELA-The Young and Restless

1910 GMT

I05 24 /24.5°W OTI: SIN News.
I06 1 /27.5°W Discubro Mi Mundo (I Discover My World)

1930 GMT

I04 5 /21.5°W Sessao Aventura (Adventure Session)
I06 1 /27.5°W Caminito Alegre (Happy Little Road)
I10 14 /53.0°W Cifra (Emblem)

1950 GMT

I06 1 /27.5°W Mi Universo (My Universe)
I08 24 /34.5°W UPITN DSSA News Unilaterals: Including Globo, Canadian CTV, and US network feeds.

2000 GMT

I06 3 /27.5°W Los Globetrotters (The Globetrotters)
I06 5 /27.5°W Fabluas del Bosque Verde (Fables of the Green Forest)
I10 1 /53.0°W 24 Horas de la Tarde (24 Hours in the Afternoon): Noticas (News).
I10 14 /53.0°W Primera Edicion (First Edition): Noticias (News).
I10 15 /53.0°W News
I10 22 /53.0°W Dibujos Animados (Cartoons).
I10 5 /53.0°W El Que Sabe Sabe (He Who Knows Knows)

2010 GMT

I06 1 /27.5°W El Cuerpo Humano (The Human Body)

2015 GMT

I04 5 /21.5°W Caso Verdade (True Case): Dramatic series.

2020 GMT

I10 22 /53.0°W MOVIE-Tardes de Cine (The Afternoon Movie)

2030 GMT

I01 19 /1.0°W RTP News from Lisbon, Portugal
I01 24 /1.0°W CNN Headline News
I06 3 /27.5°W Magnificos Justicieros (Austere Magnificents)
I06 5 /27.5°W La Pequena Casa de la Pradera (Little House on the Prairie)
I07 24 /31.0°W Los Duke de Hazzard (The Dukes of Hazzard): Serie (Series).
I10 1 /53.0°W Video Exitos (Video Outcomes)
I10 14 /53.0°W El Bazar (The Bazaar): Programa social (Social program).
I10 5 /53.0°W Curso Simplificado (Simplified Course)

2040 GMT

I05 24 /24.5°W Visnews London

2055 GMT

I04 5 /21.5°W NOVELA-A Gata Comeu

2100 GMT

I01 24 /1.0°W CNN Take Two: Hour 1.
I04 1 /21.5°W Jeannie E Um Genio (I Dream of Jeannie): Seriado (Series).
I06 3 /27.5°W Muggsy
I10 14 /53.0°W Ocio y Cultura (Leisure and Culture): Comentarios (Commentary).
I10 15 /53.0°W NOVELA-As the World Turns
I10 5 /53.0°W Guia de Cada Dia (Daily Guide)

2115 GMT

I10 1 /53.0°W Partidos Politicos (Political Parties)

2130 GMT

I04 1 /21.5°W A Feiticeira: Serie (Series).
I06 3 /27.5°W Mounstruos del Espacio (Monsters of Space)
I06 5 /27.5°W Ocho Son Suficientes (Eight is Enough)
I07 24 /31.0°W La Sexta de ATC: Noticias (News).
I10 1 /53.0°W Nuestro Cine Presenta...Tardes Rancheras (Our Movie Presentation...Ranchers Afternoon)
I10 14 /53.0°W La Guia de Cada Dia (Each Day's Guide)
I10 15 /53.0°W Capitol
I10 5 /53.0°W Pequenos Viajeros (Little Travelers)

2140 GMT

I05 24 /24.5°W Visnews

2150 GMT

I04 5 /21.5°W NOVELA-Um Sonho a Mais (Another Dream)

2200 GMT

I01 24 /1.0°W AFRTS Advisory Block: Schedules, advisories and color bars.
I04 1 /21.5°W O Gordo y O Magro (Laurel and Hardy): Serie (Series).
I05 24 /24.5°W CBS International: News unilaterals to South America.
I06 1 /27.5°W Pequenos Gigantes (Little Giants)
I06 3 /27.5°W Teleidiomas (Telelanguage)
I07 24 /31.0°W Gente Como la Gente (People Like People): Telecomidia (Comedy).
I08 24 /34.5°W Globo TV NY: News feeds from NY to Rio de Janeiro.
I10 14 /53.0°W El Capitan Peligro (Captain Danger): Dibujos animados (Cartoons).
I10 15 /53.0°W NOVELA-Guiding Light
I10 5 /53.0°W Viva Yo: Educativo, infantil (Educational children's programming).

2210 GMT

I05 24 /24.5°W NBC News Feeds

2215 GMT

I04 1 /21.5°W Jornal do Rio: Noticias (News).

2230 GMT

I01 24 /1.0°W ABC World News Tonight
I04 1 /21.5°W Jornal Bandeirantes: Noticias nacionais e internacionais (National and international news).
I06 1 /27.5°W Discoteca (Discoteque)
I06 3 /27.5°W Gente del Manana (Tomorrow's People)
I06 5 /27.5°W Cine Cine (Movie)
I10 14 /53.0°W Circulo de la Imaginacion (Circle of the Imagination)
I10 5 /53.0°W Mi Mundo de Cabeza: Cuentos clasicos infantiles (Classic children's tales).

2245 GMT

I04 5 /21.5°W R.J. TV: Noticias (News).

2255 GMT

I04 5 /21.5°W Jornal Nacional (National Journal): Noticias

2300 GMT

I01 24 /1.0°W NBC Nightly News
I04 1 /21.5°W M.A.S.H.: Comedia (Comedy).
I05 24 /24.5°W UPITN for Latin America
I06 1 /27.5°W La Mujer Maravilla (That Marvelous Woman)
I06 3 /27.5°W Conociendo el Cuetpo Humano (Knowing the Human Body)
I07 24 /31.0°W Mesa de Noticias (News Desk): Programa humoristico (Comedy).
I10 1 /53.0°W El Tesoro del Saber (The Treasure of Knowledge)
I10 14 /53.0°W Estado de Morelos (State of Morelos)
I10 15 /53.0°W Hour Magazine
I10 22 /53.0°W Chispita (Little Spark)
I10 5 /53.0°W Chispa (Spark): Educativo, infantil (Educational children's programming).

2325 GMT

I04 5 /21.5°W Corpo a Corpo (Body to Body)

2330 GMT

I01 24 /1.0°W CBS Evening News
I04 1 /21.5°W Oito E Meia (Eight and a Half): Variedades (Variety).
I06 3 /27.5°W Disco Club: Pop music videos.
I10 1 /53.0°W NOVELA-Abandonada (Abandoned)
I10 14 /53.0°W NOVELA-Lupita
I10 22 /53.0°W 60 Minutos (60 Minutes): Noticias (News).
I10 5 /53.0°W La Obra del Hombre (Man's Masterpieces)

2355 GMT

I06 5 /27.5°W Mafalda

WEDNESDAY

0000 GMT

I01 24 /1.0°W CNN Continues
I06 1 /27.5°W Noticiero 24 Horas: Noticias (News).
I06 3 /27.5°W Corazon Serano (Serene Heart)
I06 5 /27.5°W Las Noticias de VTV (News From VTV)
I07 24 /31.0°W Colorin, Colorado (Coloring, Colored): Telenovela para la juventud (Children's progamming).
I10 1 /53.0°W NOVELA-Principessa
I10 14 /53.0°W Musica y Algo Mas (Music and Something More)
I10 15 /53.0°W M.A.S.H.: Comedy.
I10 5 /53.0°W Estados de Mexico (States of Mexico)

0005 GMT

I04 1 /21.5°W Jornal da Copa: Boletim informativo sobre o Mundial do Mexico (Mexican news).

0015 GMT

I04 1 /21.5°W Emporio Brasileiro (Brazilian Emporium)

0020 GMT

I04 5 /21.5°W Terca Nobre (Magnum)

0025 GMT

I10 22 /53.0°W TV Tiempo (TV Time)

0029 GMT

I06 1 /27.5°W El Minuto de Dios (One Minute for God)

0030 GMT

I06 1 /27.5°W Dialogando
I06 5 /27.5°W Dossier
I10 1 /53.0°W NOVELA-Los Anos Pasan (The Years Pass)
I10 15 /53.0°W Cartoon
I10 22 /53.0°W El Auto Fantastico (The Fantastic Auto)
I10 5 /53.0°W Estado de Morelos (State of Morelos)

0100 GMT

I01 24 /1.0°W CBS Evening News: West Coast Feed
I06 1 /27.5°W Las Investigadoras (The Investigators)
I06 3 /27.5°W Rhonda Estelar
I06 5 /27.5°W Baila Conmigo (Dance With Me)
I07 24 /31.0°W Noche de Estreno (Debut Night)
I10 1 /53.0°W NOVELA-Juana Iris
I10 14 /53.0°W La Hora de Bellas Artes (The Hour of Beautiful Art)
I10 15 /53.0°W Buck Rogers
I10 5 /53.0°W La Hazana de Mexico (Mexico's Feat)

0115 GMT

I04 1 /21.5°W Missao Impossivel (Mission: Impossible)
I04 5 /21.5°W Sangue, Suor E Lagrimas (Blood, Sweat and Tears)

0130 GMT

I01 24 /1.0°W MacNeil, Lehrer Report
I06 1 /27.5°W Espectaculares Jes (Jes' Spectaculars): Animacion (Animated).
I10 1 /53.0°W Xe Tu, Canta Contest (Xe Tu, The Singing Contest): Concurso (Contest).
I10 22 /53.0°W Dallas

0155 GMT

I10 1 /53.0°W 24 Horas Informa:

THE AMERICAS

All times are Greenwich Meridian time

Noticias (News).

0200 GMT

I06 3 /27.5°W Novela
I06 5 /27.5°W Dallas
I10 1 /53.0°W La Hora Del Loco (Crazy Hour)
I10 14 /53.0°W La Vida de Verdi (Verdi's Life)
I10 15 /53.0°W NBC News
I10 5 /53.0°W Panorama de la Cancion Yucateca (Panorama of the Yucatecan Song)

0215 GMT

I04 1 /21.5°W Jornal da Noite (Night Journal): Noticias (News).
I04 5 /21.5°W Jornal da Globo (World Journal): Noticias (News).

0225 GMT

I04 1 /21.5°W Dinheiro (Money): Economia (Economy).

0230 GMT

I01 24 /1.0°W CNN Continues
I04 1 /21.5°W Brasil Exportacao (Exportation Brazil): Jornalistico de entrevistas e informacoes (Interviews).
I06 1 /27.5°W Noticiero TV Hoy (Today's TV News)
I10 15 /53.0°W That's Incredible
I10 22 /53.0°W Edicion Dos: Noticias (News).
I10 5 /53.0°W 7 Veces 7 (7 Times 7): Concurso (Contest).

0245 GMT

I04 5 /21.5°W R.J. TV: Noticias (News).

0250 GMT

I04 5 /21.5°W Classe A (Class A)
I10 22 /53.0°W Cine de Trasnoche (Movie)

0300 GMT

I06 1 /27.5°W Telenovela Nacional (National Telenovela)
I06 3 /27.5°W Novela
I06 5 /27.5°W La Entrevista de Hoy (Today's Interview)
I07 24 /31.0°W Titulares (Titles): Informativo (Report).
I10 1 /53.0°W El Estudio de Lola Beltran (The Studio of Lola Beltran): Canciones rancheras (Country music).
I10 14 /53.0°W Siete Dias (Seven Days): Noticias (News).
I10 15 /53.0°W Entertainment Tonight
I10 5 /53.0°W El Humor Es Una Cosa Esplendorosa (Humor Is a Splendid Thing)

0315 GMT

I06 5 /27.5°W Grandes Detectives (Big Detectives)
I07 24 /31.0°W Kenia Sharp Club: Serie (Series).

0330 GMT

I01 24 /1.0°W NBC Tonight Show starring Johnny Carson
I06 1 /27.5°W Los Profesionales (The Professionals)
I06 3 /27.5°W Telediario (Teledaily): Noticias (News).
I10 1 /53.0°W NOVELA-Tu O Nadie (You Or Nobody)
I10 14 /53.0°W Yo Recuerdo a Nelson (I Remember Nelson)
I10 15 /53.0°W San Diego At Large
I10 5 /53.0°W El Son Del Corazon (From the Heart)

0355 GMT

I10 1 /53.0°W Avance de 24 Horas (Advance of 24 Hours)

0400 GMT

I06 3 /27.5°W Serie Aventura (Adventure Series)
I10 1 /53.0°W NOVELA-Angelica
I10 15 /53.0°W The Lucie Arnaz Show
I10 5 /53.0°W Dia a Dia: Noticiario (News).

0415 GMT

I06 5 /27.5°W Despedida

0430 GMT

I01 24 /1.0°W CNN Sports Tonite
I06 1 /27.5°W Todos Somos Colombia (We're All Colombia)
I10 1 /53.0°W 24 Horas (24 Hours): Noticiario (News).
I10 14 /53.0°W Musica y Algo Mas (Music and Something More)
I10 15 /53.0°W Jeffersons

0500 GMT

I01 24 /1.0°W ABC Nightline
I06 1 /27.5°W Despedida de Planta:Himno Nacional y Cierre (Farewell to the Flag, Nacional Hymn and Sign Off)
I10 14 /53.0°W Temas de Garibay (Themes of Garibay)
I10 15 /53.0°W Movie
I10 5 /53.0°W La Entrevista de Hoy (Today's Interview)

0515 GMT

I10 5 /53.0°W Televidente (Televiewer)

0530 GMT

I01 24 /1.0°W CNN Headline News
I10 1 /53.0°W Cine del Dos (Movie for Two)
I10 14 /53.0°W Neblina Morada (Dwelling Mist)

0600 GMT

I01 24 /1.0°W AFRTS Sign Off: With advisories if necessary, followed by CNN commerical feed.
I10 14 /53.0°W Detras De (Behind)

0615 GMT

I10 5 /53.0°W Los Medicos (The Doctors)

0630 GMT

I10 14 /53.0°W Ultima Edicion (Last Edition): Noticias (News).

0940 GMT

I04 5 /21.5°W Telecurso 1 Grau (Telecourse, 1st Level)

0945 GMT

I04 1 /21.5°W Programa Jimmy Swaggart: Religioso (Religious).

0950 GMT

I04 5 /21.5°W Telecurso 2 Grau (Telecourse, 2nd Level)

1000 GMT

I04 5 /21.5°W Bom Dia, Brasil (Good Morning, Brazil): Economico (Economics).
S04 6 /14.0°W Intervision News unilaterals from Afganistan, Mongolia, and Viet Nam

1015 GMT

I04 1 /21.5°W Terra Viva: Noticiario rural (Rural news).

1030 GMT

I04 1 /21.5°W Qualificacao Profissional (Professional Qualifications): Educativo (Educational).
I04 5 /21.5°W Bom Dia, Brasil (Good Morning, Brazil): Economico (Economics).
I06 5 /27.5°W Hola, Que Tal! (Hello, How's It Going!)

1045 GMT

I04 1 /21.5°W Show de Desenhos (Cartoons).

1100 GMT

I04 5 /21.5°W TV Mulher (TV Woman)
I05 24 /24.5°W Eurovision Brussels: European News Unilateral Exchanges.

1130 GMT

I04 1 /21.5°W Ao Despertar da Fe (To Awaken Faith): Religioso (Religious).
I05 24 /24.5°W CBS and NBC News Feeds from London

1200 GMT

I04 1 /21.5°W Ella (She): Programa feminino (Women's program).
I10 5 /53.0°W El Hombre y El Campo (Man and the Country): Informacion agropecuaria (Farming information).

1230 GMT

I04 5 /21.5°W Balao Magico (The Magic Balloon): Desenhos (Cartoons).
I07 24 /31.0°W Telescuela Tecnica (Technical School): Educativo (Educationalprogramming).
I10 5 /53.0°W Capacitacion (Preparation)

1300 GMT

I01 24 /1.0°W Sign On
I07 24 /31.0°W Buen Dia Maria (Good Day Maria): Clases de gimasia (Gymnastics classes).
I10 1 /53.0°W Hoy Mismo (Today In Itself): Noticias, variedades (News, variety).
I10 14 /53.0°W Desde Temprano (Since Early): Revista noticiera, cultural y deportiva (News reviews, cultural, sports reviews).
I10 15 /53.0°W News
I10 5 /53.0°W Secundaria Intensiva (Intensive High School)
S04 6 /14.0°W UPITN News from London

1315 GMT

S04 6 /14.0°W Intervision News Unilaterals

1330 GMT

I01 24 /1.0°W ABC World News AM

1340 GMT

I04 1 /21.5°W A Maravilhosa Cozinha de Ofelia (Ofelia's Marvelous Kitchen): Culinaria (Culinary arts).

1400 GMT

F01 1 /8.0°W AITV News Paris
I01 24 /1.0°W NBC Today Show
I05 24 /24.5°W UPITN News London
I06 5 /27.5°W La Abejita Maya (Maya, the Little Bee)
I07 24 /31.0°W Dibujos Animados (Cartoons).
I10 22 /53.0°W Matinal Infantil (Children's Morning Show)
I10 5 /53.0°W Telesecundaria (Tele-High School)

1420 GMT

I04 1 /21.5°W Ella (She): Programa feminino (Women's program).

1430 GMT

I05 24 /24.5°W Visnews for Middle East and Europe
I06 5 /27.5°W Asi Es la Vida (So Is Life)
I07 24 /31.0°W Vivir Bien (To Live Well)
I10 15 /53.0°W Sun Up San Diego

1445 GMT

I06 1 /27.5°W Circuito Electrico Agropecuario (Farming Electrical Circuit)

1455 GMT

I04 1 /21.5°W Boa Vontade (Good Will): Religioso (Religious).

1500 GMT

I04 1 /21.5°W SPORTS-Esporte Total (Total Sports)
I05 24 /24.5°W Eurovision Brussels: European News Unilateral Exchanges.
I06 1 /27.5°W Caminito Alegre (Happy Little Road)
I06 5 /27.5°W Aqui Esta Lucy (Here's Lucy)
I07 24 /31.0°W Treinta-Treinta: Noticias (News).

1525 GMT

I06 1 /27.5°W La Tierra y el Hombre (The Land and Man)

1530 GMT

I04 1 /21.5°W Amor (Love): Variedades (Variety).
I04 5 /21.5°W R.J. TV: Noticias (News).
I06 5 /27.5°W Favoritos de Monitor Hipico (Horse Races)
I10 15 /53.0°W The New $25,000 Pyramid
I10 22 /53.0°W Festival de la Una (Festival for One)

1545 GMT

I04 5 /21.5°W SPORTS-TV Globo Esporte (World Sports): Noticias y esporte (News and sports).
I06 1 /27.5°W Catequesis (Catechizm)

1600 GMT

I01 24 /1.0°W CNN Headline News
I04 5 /21.5°W Hoje (Today)
I05 24 /24.5°W Eurovision Brussels: European News Unilateral Exchanges.
I06 5 /27.5°W La Noticia: News.
I07 24 /31.0°W NOVELA-Extranos

y Amantes (Strangers and Lovers)

1630 GMT

I01 24 /1.0°W ESPN Sportscenter or CNN Headline News
I04 1 /21.5°W TV Crianca (Childrens' TV)
I04 5 /21.5°W NOVELA-Vale a Pena Ver de Novo (It's Worth the Trouble to Look Again)
I06 1 /27.5°W NOVELA-Dancin' Days
I06 3 /27.5°W Novela
I06 5 /27.5°W Almorzando con Orlando (Lunching With Orlando)
I10 15 /53.0°W Press Your Luck

1700 GMT

I01 24 /1.0°W CNN Take Two: Hour 2.
I05 24 /24.5°W Visnews London: Early evening news feeds for SABC Johannesburg.
I06 1 /27.5°W Teatro (Theater)
I07 24 /31.0°W 20 Mujeres (20 Women): Periodistico (Journalistic).
I10 1 /53.0°W Vida Diaria (Living Diary)
I10 14 /53.0°W Sal y Pimienta (Salt and Pepper)
S04 6 /14.0°W Vremya (Time): The Moscow Evening News, Sports, Weather.

1730 GMT

I04 5 /21.5°W Sessao da Tarde (Afternoon Session)
I06 1 /27.5°W Noticias Uno (News One)
I10 14 /53.0°W De Tres en Tres (Three on Three)
I10 22 /53.0°W Edicion Uno (First Edition): Noticias (News).

1745 GMT

I10 22 /53.0°W Chispita: Teleseie (Teleseries).

1800 GMT

I01 24 /1.0°W CNN Headline News
I06 1 /27.5°W Telenovela Regional (Regional Telenovela)
I06 5 /27.5°W El Encuentro (The Encounter)
I10 14 /53.0°W La Novela (The Novel)
I10 15 /53.0°W The Price is Right: Game show.

1815 GMT

I10 22 /53.0°W Un Minuto eb la Moda (One Minute in Fashion)

1820 GMT

I10 22 /53.0°W La Feira (The Hustler): Teleserie (Teleseries).

1830 GMT

I01 24 /1.0°W SPORTS-American Interests
I06 1 /27.5°W La Tierra y el Hombre (The Land and Man)
I10 1 /53.0°W Club del Hogar (The Home Club): Variedades, humorismo (Variety, humor).

1850 GMT

I06 1 /27.5°W Catequesis (Catechizm)

1855 GMT

I10 22 /53.0°W Arean 12: Serie policial (Police series).

1900 GMT

I01 24 /1.0°W McLaughlin Group
I06 1 /27.5°W Discubro Mi Mundo (I Discover My World)
I06 5 /27.5°W La Sultana
I07 24 /31.0°W Telejuegos (Telegames): Infantil (Children's programming).
I10 14 /53.0°W Las Artes (The Arts)
I10 15 /53.0°W NOVELA-The Young and Restless

1910 GMT

I05 24 /24.5°W OTI: SIN News.

1930 GMT

I01 24 /1.0°W Entertainment This Week: Entertainment news program from Hollywood, California.
I04 5 /21.5°W Os Grandes Herois da Biblia (Grand Heros of the Bible)
I05 24 /24.5°W RTP News from Lisbon, Portugal
I06 1 /27.5°W Caminito Alegre (Happy Little Road)
I10 14 /53.0°W Vamos a Todas Partes (Let's Go Everywhere)

1950 GMT

I06 1 /27.5°W Catequesis (Catechizm)
I08 24 /34.5°W UPITN DSSA News Unilaterals: Including Globo, Canadian CTV, and US network feeds.

2000 GMT

I06 3 /27.5°W Oso Manosos (The Clever Bear)
I06 5 /27.5°W Laura, La Pequena Nina de la Pradera (Laura, the Little Prairie Girl)
I10 1 /53.0°W 24 Horas de la Tarde (24 Hours in the Afternoon): Noticias (News).
I10 14 /53.0°W Primera Edicion (First Edition): Noticias (News).
I10 15 /53.0°W News
I10 22 /53.0°W Dibujos Animados (Cartoons)
I10 5 /53.0°W El Que Sabe Sabe (He Who Knows Knows)

2010 GMT

I06 1 /27.5°W Discubro Mi Mundo (I Discover My World)

2015 GMT

I04 5 /21.5°W Caso Verdade (True Case): Dramatic series.

2020 GMT

I10 22 /53.0°W MOVIE-Tardes de Cine (The Afternoon Movie)

2030 GMT

I01 19 /1.0°W RTP News from Lisbon, Portugal
I01 24 /1.0°W CNN Headline News
I06 3 /27.5°W Magnificos Justicieros (Austere Magnificents)
I06 5 /27.5°W La Pequena Casa de la Pradera (Little House on the Prairie)
I07 24 /31.0°W Buck Rogers: Serie (Series).
I10 1 /53.0°W Videoexitos (Video Outcomes)
I10 14 /53.0°W SPORTS-Hacia (Preparation)

2035 GMT

I06 1 /27.5°W Caminito Alegre (Happy Little Road)

2045 GMT

I05 24 /24.5°W Visnews London

2050 GMT

I04 5 /21.5°W NOVELA-A Gata Comeu

2100 GMT

I01 24 /1.0°W CNN Take Two: Hour 1.
I04 1 /21.5°W Agente 86 (Get Smart): Serie (Series).
I06 1 /27.5°W Musica de Radio Nacional (Music of National Radio)
I06 3 /27.5°W Esper
I10 15 /53.0°W NOVELA-As the World Turns
I10 5 /53.0°W Guia de Cada Dia (Daily Guide)

2130 GMT

I04 1 /21.5°W Jeannie E Um Genio (I Dream of Jeannie): Seriado (Series).
I06 1 /27.5°W La Flauta Magica (The Magic Flute)
I06 3 /27.5°W The Invisible Boy: Action, adventure.
I06 5 /27.5°W Ocho Son Suficientes (Eight is Enough)
I07 24 /31.0°W La Sexta de ATC: Noticias (News).
I10 1 /53.0°W MOVIE-Nuestro Cine Presenta...Las Estrellas y Usted (Our Movie Presentation...The Stars and You)
I10 15 /53.0°W Capitol
I10 5 /53.0°W Pequenos Viajeros (Little Travelers)

2145 GMT

I04 5 /21.5°W NOVELA-Um Sonho a Mais (Another Dream)

2200 GMT

I01 24 /1.0°W AFRTS Advisory Block: Schedules, advisories and color bars.
I04 1 /21.5°W O Gordo y O Magro (Laurel and Hardy): Serie (Series).
I05 24 /24.5°W CBS International: News unilaterals to South America.
I06 1 /27.5°W Pequenos Gigantes (The Little Giants): Dibujos animados (Cartoons).
I06 3 /27.5°W Teleidiomas (Telelanguage)
I07 24 /31.0°W Gente Como la Gente (People Like People): Telecomedia (Telecomedy).
I08 24 /34.5°W Globo TV NY: News feeds from NY to Rio de Janeiro.
I10 15 /53.0°W NOVELA-Guiding Light
I10 5 /53.0°W El Hada Chappie (Chappie the Fairy): Dibujos animados (Cartoons).

2215 GMT

I04 1 /21.5°W Jornal do Rio: Noticias (News).

2230 GMT

I01 24 /1.0°W ABC World News Tonight
I04 1 /21.5°W Jornal Band-eirantes: Noticias nacionais y internacionais (National and international news).
I06 1 /27.5°W Fantasia (Fantasy)
I06 3 /27.5°W Gente Del Manana (Tomorrow's People)
I06 5 /27.5°W Cine Cine (Movie)
I10 14 /53.0°W La Casa de Paco (Paco's House): Children's programming.
I10 5 /53.0°W Mi Mundo de Cabeza: Cuentos clasicos infantiles (Classic children's tales).

2245 GMT

I04 5 /21.5°W R.J. TV: Noticias (News).
I10 14 /53.0°W Programa de los Partidos Politicos (Program of the Political Parties)
I10 22 /53.0°W Chispita (Little Spark)

2255 GMT

I04 5 /21.5°W Jornal Nacional (National Journal): Noticias (News).

2300 GMT

I01 24 /1.0°W NBC Nightly News
I04 1 /21.5°W M.A.S.H.: Comedia (Comedy).
I06 1 /27.5°W Cafe Concierto: Concert.
I06 3 /27.5°W Disco Club: Pop music videos.
I07 24 /31.0°W Mesa de Noticias (News Desk): Humoristico (Comedy).
I10 1 /53.0°W : El Tesoro del Saber (The Treasure of Knowledge)
I10 14 /53.0°W Los Barrios (Neighborhoods)
I10 15 /53.0°W Hour Magazine
I10 5 /53.0°W Sabias Tu Que... (You Know That...)

2320 GMT

I04 5 /21.5°W Corpo a Corpo (Body to Body)

2330 GMT

I01 24 /1.0°W CBS Evening News
I04 1 /21.5°W Oito E Meia (Eight and a Half): Variedades (Variety).
I06 1 /27.5°W Juventud '85 (Youth '85): Music and dance.
I06 3 /27.5°W Telediario (Telediaily): Noticias (News).
I10 1 /53.0°W Abandonado (Abandoned)
I10 14 /53.0°W NOVELA-Lupita
I10 22 /53.0°W 60 Minutos (60 Minutes): Noticias (News).
I10 5 /53.0°W Cambio (Change)

2355 GMT

I06 5 /27.5°W Mafalda

THURSDAY

0000 GMT

I01 24 /1.0°W CNN Continues
I06 1 /27.5°W Noticiero 24 Horas (24 Hours): Noticias (News).
I06 5 /27.5°W Las Noticias de VTV (News From VTV)
I07 24 /31.0°W Historias de la Argentina Secreta (Stories of the Secret Argentina): Documental (Documentary).
I10 1 /53.0°W Principessa

THE AMERICAS

All times are Greenwich Meridian time

I10 14 /53.0°W Musica y Algo Mas (Music and Something More)
I10 15 /53.0°W M.A.S.H.: Comedy.
I10 5 /53.0°W Los Estados de Mexico (The States of Mexico)

0015 GMT

I04 1 /21.5°W Essas Mulheres Maravilhosas (Those Marvelous Women): Variedades (Variety).

0020 GMT

I04 5 /21.5°W Missao Secreta (Secret Mass)

0025 GMT

I06 1 /27.5°W El Minuto de Dios (One Minute for God)

0030 GMT

I06 1 /27.5°W Al Banquillo Con Margarita (Margaret's Bench): Periodistico (Journalistic).
I06 3 /27.5°W Telediario (Telediaily): Noticias (News).
I06 5 /27.5°W Dossier
I10 1 /53.0°W Los Anos Pasan (The Years Pass)
I10 15 /53.0°W Cartoon
I10 22 /53.0°W Magnum, P.I.: Serie de accion (Action series).
I10 5 /53.0°W El Mundo De... (The World of...)

0100 GMT

I01 24 /1.0°W CBS Evening News: West Coast Feed
I06 1 /27.5°W Profesion Peligro (Dangerous Profession)
I06 5 /27.5°W Baila Conmigo (Dance With Me)
I07 24 /31.0°W Cordialmente (Cordially).
I10 1 /53.0°W Juana Iris
I10 14 /53.0°W Lo Que El Tiempo Se Llevo (That Which Time Brings)
I10 15 /53.0°W Buck Rogers
I10 5 /53.0°W Yanga

0115 GMT

I04 1 /21.5°W Missao Impossivel (Mission: Impossible)
I04 5 /21.5°W Sangue, Suor E Lagimas (Blood, Sweat and Tears)

0130 GMT

I01 24 /1.0°W MacNeil, Lehrer Report
I06 1 /27.5°W TV Crucigrama (TV Crossword Puzzle)
I10 1 /53.0°W Xetu: Concurso (Game show).
I10 22 /53.0°W Quincy

0155 GMT

I10 1 /53.0°W 24 Horas Informa: Noticias (News).

0200 GMT

I06 1 /27.5°W Guerra de Estrellas (War of the Stars): Programa concurso (Contest).
I06 3 /27.5°W Los Rivales de Sherlock Holmes (The Rivals of Sherlock Holmes)
I06 5 /27.5°W Dallas
I10 1 /53.0°W Que Lio Con Este Trio (What Confusion with this Trio)
I10 14 /53.0°W La Vida de Verdi (Verdi's Life)
I10 15 /53.0°W News
I10 5 /53.0°W Por Los Caminos de Mexico (By the Roads of Mexico): Concurso (Contest).

0215 GMT

I04 1 /21.5°W Jornal da Noite (Night Journal): Noticias (News).
I04 5 /21.5°W Jornal da Globo (World Journal): Noticias (News).

0225 GMT

I04 1 /21.5°W Dinheiro (Money): Economia (Economy).

0230 GMT

I01 24 /1.0°W CNN Continues
I04 1 /21.5°W Caso de Policia (Police Case)
I06 1 /27.5°W Noticiero T.V. Hoy (Today's TV News)
I10 1 /53.0°W Salon De Belleza (Beauty Salon)
I10 15 /53.0°W That's Incredible
I10 22 /53.0°W Edicion Dos: Noticias (News).

0245 GMT

I04 5 /21.5°W R.J. TV: Noticias (News).

0250 GMT

I04 5 /21.5°W Coruja Colorida

0300 GMT

I06 1 /27.5°W Telenovela Nacional (National Telenovela)
I06 3 /27.5°W Cine Como en El Cine (Movie Like At The Movies)
I06 5 /27.5°W La Entrevista de Hoy (Today's Interview)
I07 24 /31.0°W Kenia Sharp Club: Serie (Series).
I10 1 /53.0°W Nuevas Noches con Talina Fernandez (New Nights with Talina Fernandez)
I10 14 /53.0°W Siete Dias (Seven Days): Noticias (News).
I10 15 /53.0°W Entertainment Tonight
I10 5 /53.0°W Condominio Horizontal (Condominium): Comedia (Comedy).

0315 GMT

I06 5 /27.5°W Programa del Sindicato (Syndicated Program)
I10 22 /53.0°W Cine de Trasnoche (Movie)

0330 GMT

I01 24 /1.0°W NBC Tonight Show starring Johnny Carson
I06 1 /27.5°W Al Este Del Paraiso (East of Paradise)
I10 1 /53.0°W NOVELA-Tu O Nadie (You or Nobody)
I10 14 /53.0°W La Hora Espectacular (The Spectacular Hour)
I10 15 /53.0°W San Diego At Large
I10 5 /53.0°W Azul (Blue): Recordando a los grandes autores de la musica romantica en Mexico (Rememebering the great authors of the romantic music in Mexico).

0355 GMT

I10 1 /53.0°W 24 Horas Informa: Noticias (News).

0400 GMT

I06 1 /27.5°W Vida Salvaje (Wild Life): Aspectos de la fauna y la flora nacional (Aspects of the national fauna and flora).
I10 1 /53.0°W NOVELA-Angelica
I10 15 /53.0°W Double Dare
I10 5 /53.0°W Dia a Dia: Noticiario (News).

0430 GMT

I01 24 /1.0°W CNN Sports Tonite
I06 1 /27.5°W Correo de Medianoche (Midnight Mail)
I06 3 /27.5°W Telediario (Telediaily): Noticias (News).
I10 1 /53.0°W 24 Horas (24 Hours): Noticiario (News).

0500 GMT

I01 24 /1.0°W ABC Nightline
I06 1 /27.5°W Cierre (Sign Off)
I10 15 /53.0°W Movie
I10 22 /53.0°W Cierre (Close)
I10 5 /53.0°W La Entrevista de Hoy (Today's Interview)

0515 GMT

I10 5 /53.0°W Cine Mexicano (Mexican Movie)

0530 GMT

I01 24 /1.0°W CNN Headline News
I10 1 /53.0°W Cine del Dos (Movie for Two)

0545 GMT

I10 14 /53.0°W Nosotros (We)

0600 GMT

I01 24 /1.0°W AFRTS Sign Off: With advisories if necessary, followed by CNN commercial feed.

0615 GMT

I10 14 /53.0°W Horizontes (Horizons)

0645 GMT

I10 14 /53.0°W Ultima Edicion (Last Edition): Noticias (News).

0940 GMT

I04 5 /21.5°W Telecurso 1 Grau (Telecourse, 1st Level)

0945 GMT

I04 1 /21.5°W Programa Jimmy Swaggart: Religioso (Religious).

0950 GMT

I04 5 /21.5°W Telecurso 2 Grau (Telecourse, 2nd Level)

1000 GMT

I04 5 /21.5°W Bom Dia, Brasil (Good Morning, Brazil): Economico (Economics).
I05 24 /24.5°W Eurovision Brussels: European News Unilateral Exchanges.

1015 GMT

I04 1 /21.5°W Qualificacao Profissional (Professional Qualifications): Educativo (Educational).

1030 GMT

I04 1 /21.5°W Show de Desenhos (Cartoons).
I04 5 /21.5°W Bom Dia, Brasil (Good Morning, Brazil): Economico (Economics).
I05 24 /24.5°W CBS and NBC News Feeds from London
I06 5 /27.5°W Hola, Que Tal! (Hello, How's It Going!)

1100 GMT

I04 5 /21.5°W TV Mulher (TV Woman)

1130 GMT

I04 1 /21.5°W Ao Despertar da Fe (To Awaken Faith): Religioso (Religious).

1200 GMT

I04 1 /21.5°W Ella (She): Programa feminino (Women's program).
I10 5 /53.0°W El Hombre y El Campo (Man and the Country): Informacion agropecuaria (Farming information).

1230 GMT

I04 5 /21.5°W Balao Magico (The Magic Balloon): Desenhos (Cartoons).
I10 5 /53.0°W Capacitacion (Preparation)

1300 GMT

I01 24 /1.0°W Sign On
I05 24 /24.5°W UPITN News London
I07 24 /31.0°W SPORTS-Tenis (Tennis)
I10 1 /53.0°W Hoy Mismo (Today In Itself): Noticias, variedades (News, variety).
I10 14 /53.0°W Desde Temprano (Since Early): Revista noticiera, cultural y deportiva (News reviews, cultural, sports reviews).
I10 15 /53.0°W News
I10 5 /53.0°W Secundaria Intensiva (Intensive High School)
S04 6 /14.0°W UPITN News from London

1315 GMT

S04 6 /14.0°W Intervision News Unilaterals

1330 GMT

I01 24 /1.0°W ABC World News AM
I05 24 /24.5°W Visnews for Middle East and Europe

1400 GMT

F01 1 /8.0°W AITV News Paris
I01 24 /1.0°W NBC Today Show
I04 1 /21.5°W A Maravilhosa Cozinha de Ofelia (Ofelia's Marvelous Kitchen): Culinaria (Culinary arts).
I06 5 /27.5°W La Abejita Maya (Maya, the Little Bee)
I10 22 /53.0°W Dibujos Animados (Cartoons)
I10 5 /53.0°W Telesecundaria (Tele-High School)

1425 GMT

I10 22 /53.0°W La Cocina de Monica (Monica's Kitchen)

1430 GMT

I06 5 /27.5°W Asi Es la Vida (So Is Life)
I10 15 /53.0°W Sun Up San Diego
I10 22 /53.0°W Mazapan

1445 GMT

I06 1 /27.5°W Circuito Electrico (Electric Circuit)

1455 GMT

I04 1 /21.5°W Boa Vontade (Good Will): Religioso (Religious).

1500 GMT

I04 1 /21.5°W SPORTS-Esporte Total (Total Sports)
I05 24 /24.5°W Eurovision Brussels: European News Unilateral Exchanges.
I06 5 /27.5°W Familia (Family)
I10 22 /53.16128° Festival de la Una (Festival for One)

1530 GMT

I04 1 /21.5°W Amor (Love): Variedades (Variety).
I04 5 /21.5°W R.J. TV: Noticias (News).
I07 24 /31.0°W Treinta-Treinta: Noticias (News).
I10 15 /53.0°W The New $25,000 Pyramid

1545 GMT

I04 5 /21.5°W SPORTS-TV Globo Esporte (World Sports): Noticias y esporte (News and sports).

1600 GMT

I01 24 /1.0°W CNN Headline News
I04 5 /21.5°W Hoje (Today)
I05 24 /24.5°W Eurovision Brussels: European News Unilateral Exchanges.
I06 5 /27.5°W La Noticia: News.
I07 24 /31.0°W NOVELA-Extranos y Amantes (Strangers and Lovers)

1630 GMT

I01 24 /1.0°W SPORTS-ESPN Sportscenter
I04 1 /21.5°W TV Crianca (Childrens' TV)
I04 5 /21.5°W NOVELA-Vale a Pena Ver de Novo (It's Worth the Trouble to Look Again)
I06 1 /27.5°W NOVELA-Dancin' Days
I06 5 /27.5°W Almorzando con Orlando (Lunching With Orlando)
I10 15 /53.0°W Press Your Luck

1700 GMT

I01 24 /1.0°W CNN Take Two: Hour 2.
I05 24 /24.5°W Visnews London: Early evening news feeds for SABC Johannesburg.
I06 1 /27.5°W Camina Hacia el Deporte (Road About Sports)
I07 24 /31.0°W 20 Mujeres (20 Women): Periodistico (Journalistic).
I10 1 /53.0°W Vida Diaria (Living Diary)
I10 14 /53.0°W Sal y Pimienta (Salt and Pepper)
I10 22 /53.0°W Edicion Uno (First Edition): Noticias (News).
S04 6 /14.0°W Vremya (Time): The Moscow Evening News, Sports, Weather.

1730 GMT

I04 5 /21.5°W Sessao da Tarde (Afternoon Session)
I06 1 /27.5°W Noticias Uno: News.
I10 14 /53.0°W Consulte a Su Medico (Consult Your Doctor)
I10 22 /53.0°W Chispita: Teleserie (Teleseries).

1800 GMT

I01 24 /1.0°W CNN Headline News
I06 1 /27.5°W Telenovela Regional (Regional Telenovela)
I06 5 /27.5°W El Encuentro (The Encounter)
I10 14 /53.0°W La Novela (The Novel)
I10 15 /53.0°W The Price is Right: Game show.

1805 GMT

I10 22 /53.0°W Amalia Batista

1830 GMT

I01 24 /1.0°W CNN Continues
I06 1 /27.5°W Matematica (Mathematics)
I10 1 /53.0°W Club del Hogar (The Home Club): Variedades, humorismo (Varieties, humor).

1850 GMT

I06 1 /27.5°W Avancemos (Let's Advance)

1900 GMT

I01 24 /1.0°W CNN Continues
I06 1 /27.5°W Musica (Music)
I06 5 /27.5°W Los Sultana
I07 24 /31.0°W Telejuegos (Telegames): Infantil (Children's programming).
I10 14 /53.0°W Artesanos y Orfebres (Artisians and Silversmiths)
I10 15 /53.0°W NOVELA-The Young and Restless
I10 22 /53.0°W Fama (Fame): Aventuras (Adventure).

1910 GMT

I05 24 /24.5°W OTI: SIN News.

1930 GMT

I01 24 /1.0°W Solid Gold: American pop music show counts down the top ten tunes of the week.
I04 5 /21.5°W Os Grandes Herois da Biblia (Grand Heros of the Bible)
I10 14 /53.0°W Cifra (Emblem)

1935 GMT

I06 1 /27.5°W Catequesis (Catechizm)

1950 GMT

I06 1 /27.5°W Especial (Special)
I08 24 /34.5°W UPITN DSSA News Unilaterals: Including Globo, Canadian CTV, and US network feeds.

2000 GMT

I06 3 /27.5°W La Mole (The Mass)
I06 5 /27.5°W Don Quixote y los Cuentos de la Mancha (The Tales of Don Quixote)
I10 1 /53.0°W SPORTS-Futbol Internacional (International Soccer)
I10 14 /53.0°W Primera Edicion (First Edition): Noticias (News).
I10 15 /53.0°W News
I10 5 /53.0°W El Que Sabe Sabe (He Who Knows Knows)

2010 GMT

I06 1 /27.5°W Musica (Music)
I10 22 /53.0°W MOVIE-Tardes de Cine (The Afternoon Movie)

2015 GMT

I04 5 /21.5°W Caso Verdade (True Case): Dramatic series.

2030 GMT

I01 19 /1.0°W RTP News from Lisbon, Portugal
I01 24 /1.0°W CNN Headline News
I06 3 /27.5°W Magnificos Justicieros (Austere Magnificents)
I06 5 /27.5°W La Pequena Casa de la Pradera (Little House on the Prairie)
I07 24 /31.0°W La Pandilla de la Computadora (The Computer Gang): Serie (Series).
I10 14 /53.0°W SPORTS-Hacia Mexico 86 (Toward Mexico 86)
I10 5 /53.0°W Capacitacion (Preparation)

2035 GMT

I06 1 /27.5°W Catequesis (Catechizm)

2040 GMT

I05 24 /24.5°W Visnews London

2050 GMT

I04 5 /21.5°W NOVELA-A Gata Comeu
I06 1 /27.5°W Musica de Radio Nacional (Music of the National Radio)

2100 GMT

I01 24 /1.0°W CNN Take Two: Hour 1.
I04 1 /21.5°W Jeannie E Um Genio (I Dream of Jeannie): Seriado (Series).
I06 3 /27.5°W Muggsy
I06 5 /27.5°W Ocho Son Suficientes (Eight is Enough)
I10 15 /53.0°W NOVELA-As The World Turns
I10 5 /53.0°W Guia de Cada Dia (Daily Guide)

2130 GMT

I04 1 /21.5°W A Feiticeira: Serie (Series).
I05 24 /24.5°W Visnews
I06 1 /27.5°W Los Dumis
I06 3 /27.5°W Mounstruos del Espacio (Monsters of Space)
I07 24 /31.0°W La Sexta de ATC: Noticias (News).
I10 15 /53.0°W Capitol
I10 5 /53.0°W Pequenos Viajeros (Little Travelers)

2145 GMT

I04 5 /21.5°W NOVELA-Um Sonho a Mais (Another Dream)

2200 GMT

I01 24 /1.0°W AFRTS Advisory Block: Schedules, advisories and color bars.
I04 1 /21.5°W O Gordo y O Magro (Laurel and Hardy): Serie (Series).
I06 1 /27.5°W Pequenos Gigantes (Little Giants)
I06 3 /27.5°W Teleidiomas (Telelanguage)
I07 24 /31.0°W Gente Como la Gente (People Like People): Telecomedia (Telecomedy).
I08 24 /34.5°W Globo TV NY: News feeds from NY to Rio de Janeiro.
I10 1 /53.0°W 24 Horas de la Tarde (24 Hours in the Afternoon): Noticias (News).
I10 15 /53.0°W NOVELA-Guiding Light
I10 5 /53.0°W Viva Yo: Educativo, infantil (Educational children's programming).

2205 GMT

I05 24 /24.5°W CBS International: News unilaterals to South America.

2210 GMT

I05 24 /24.5°W NBC News Feeds

2215 GMT

I04 1 /21.5°W Jornal do Rio: Noticias (News).

2230 GMT

I01 24 /1.0°W ABC World News Tonight
I04 1 /21.5°W Jornal Bandeirantes: Noticias nacionais y internacionais (National and international news).
I06 1 /27.5°W Llano Adentro (Smoothe Inside)
I06 3 /27.5°W Gente del Manana (Tomorrow's People)
I06 5 /27.5°W Cine Cine (Movie)
I10 1 /53.0°W Videoexitos (Video Outcomes)
I10 14 /53.0°W Circulo de la Imaginacion (Circle of the Imagination)
I10 5 /53.0°W Mi Mundo de Cabeza: Cuentos clasicos infantiles (Classic children's tales).

2240 GMT

I04 5 /21.5°W R.J. TV: Noticias (News).

2255 GMT

I04 5 /21.5°W Jornal Nacional (National Journal): Noticias (News).

2300 GMT

I01 24 /1.0°W NBC Nightly News
I04 1 /21.5°W M.A.S.H.: Comedia (Comedy).
I05 24 /24.5°W UPITN for Latin America
I06 1 /27.5°W Panorama
I06 3 /27.5°W Conociendo el Cuerpo Humano (Knowing the Human Body)
I07 24 /31.0°W Mesa de Noticias (News Desk): Telecomidia (Comedy).
I10 14 /53.0°W Mexico Desconocido (The Unknown Mexico)
I10 15 /53.0°W Hour Magazine
I10 5 /53.0°W Chispa (Spark)

2325 GMT

I04 5 /21.5°W Corpo a Corpo (Body to Body)

2330 GMT

I01 24 /1.0°W CBS Evening News
I04 1 /21.5°W Oito E Meia (Eight and a Half): Variedades (Variety).
I06 3 /27.5°W Disco Club: Pop music videos.
I10 1 /53.0°W NOVELA-Abandonada (Abandoned)
I10 14 /53.0°W NOVELA-Lupita

THE AMERICAS

All times are Greenwich Meridian time

I10 22 /53.0°W 60 Minutos (60 Minutes): Noticias (News).
I10 5 /53.0°W Jueves de Estreno (Thursday Debut)

2355 GMT

I06 5 /27.5°W Mafalda

FRIDAY

0000 GMT

I01 24 /1.0°W CNN Continues
I06 5 /27.5°W Las Noticias de VTV (News From VTV)
I07 24 /31.0°W El Pais Que Tenemos que Cambiar (The Country that We Have to Change): Periodistico (Journalistic).
I10 1 /53.0°W NOVELA-Principessa
I10 14 /53.0°W Musica y Algo Mas (Music and Something More)
I10 15 /53.0°W M.A.S.H.: Comedy.

0005 GMT

I04 1 /21.5°W Jornal da Copa: Boletim informativo sobdre o Mundial do Mexico (Mexican news).

0015 GMT

I04 1 /21.5°W Quinta Espectacular (Thursday Spectacular)

0020 GMT

I04 5 /21.5°W Globo Reporter (Global Reporter)

0030 GMT

I06 3 /27.5°W Telediario (Teledaily): Noticias (News).
I06 5 /27.5°W Dossier
I10 1 /53.0°W NOVELA-Los Anos Pasan (The Years Pass)
I10 15 /53.0°W Cartoon
I10 22 /53.0°W Franja Cultural (Cultural Fringe)
I10 5 /53.0°W Casi Un Siglo en el Aire (Almost a Century in the Air): Historia de la radio en Mexico (History of Mexican radio).

0100 GMT

I01 24 /1.0°W CBS Evening News: West Coast Feed
I06 3 /27.5°W Lord Mountbatten
I06 5 /27.5°W Baila Conmigo (Dance With Me)
I07 24 /31.0°W Testamentos (Testaments)
I10 1 /53.0°W NOVELA-Juana Iris
I10 14 /53.0°W Novela Semanal (Weekly Novel)
I10 15 /53.0°W Buck Rogers
I10 5 /53.0°W La Hazana de Mexico (Mexico's Feat)

0115 GMT

I04 5 /21.5°W Sangue, Suor E Lagrimas (Blood, Sweat and Tears)

0130 GMT

I01 24 /1.0°W MacNeil, Lehrer Report
I10 1 /53.0°W Xe Tu, Canta Contest (Xe Tu, The Singing Contest): Concurso (Contest).
I10 22 /53.0°W Temple de Acero (Temple of Steel)

0155 GMT

I10 1 /53.0°W 24 Horas Informa: Noticias (News).

0200 GMT

I06 3 /27.5°W Los Herederos (The Heirs)
I06 5 /27.5°W Dallas
I07 24 /31.0°W Hospital: Serie (Series).
I10 1 /53.0°W El Show de las Estrellas (The Show of The Stars)
I10 14 /53.0°W La Vida de Verdi (Verdi's Life)
I10 15 /53.0°W News
I10 5 /53.0°W Espana Frente a la Visita del Presidente (Spain Before the President's Visit)

0215 GMT

I04 5 /21.5°W Jornal da Globo (World Journal): Noticias (News).

0230 GMT

I01 24 /1.0°W CNN Continues
I10 1 /53.0°W Cosas de Casados (About Married People)
I10 15 /53.0°W That's Incredible
I10 22 /53.0°W Edicion Dos: Noticias (News).
I10 5 /53.0°W Gane Con Los Grandes (Big Winners): Concurso (Contest).

0245 GMT

I04 1 /21.5°W Jornal da Noite (Night Journal): Noticias (News).
I04 5 /21.5°W R.J. TV: Noticias (News).

0255 GMT

I04 1 /21.5°W Dinheiro (Money): Economia (Economy).

0300 GMT

I04 1 /21.5°W Campeoes de Audiencia (Champions of Audience)
I06 3 /27.5°W Cine Como En El Cine (Movie Like At The Movies)
I06 5 /27.5°W La Entrevista de Hoy (Today's Interview)
I07 24 /31.0°W Titulares (Titles): Informativo (Report).
I10 1 /53.0°W No Empujen (Don't Push): Comedia (Comedy).
I10 14 /53.0°W Siete Dias (Seven Days): Noticias (News).
I10 15 /53.0°W Entertainment Tonight
I10 22 /53.0°W Clasicos del Cine (Movie Classics)
I10 5 /53.0°W Noches de Garibaldi (Garibaldi's Night): Comico, musical folclorico (Comical, folk music).

0315 GMT

I06 5 /27.5°W A Los Toros (At the Bullfights)

0330 GMT

I01 24 /1.0°W NBC Tonight Show starring Johnny Carson
I07 24 /31.0°W Los Vengadores (The Avengers)
I10 1 /53.0°W NOVELA-Tu O Nadie (You of Nobody)
I10 14 /53.0°W Grandes Series (Grand Series)
I10 15 /53.0°W San Diego At Large

0355 GMT

I10 1 /53.0°W Avance de 24 Horas (Advance of 24 Hours)

0400 GMT

I10 1 /53.0°W NOVELA-Angelica
I10 15 /53.0°W Magnum, P.I.: Detective series.
I10 5 /53.0°W Dia a Dia: Noticiario (News).

0415 GMT

I06 5 /27.5°W Despedida

0420 GMT

I04 5 /21.5°W Codigo Penal (Penal Code)

0430 GMT

I01 24 /1.0°W CNN Sports Tonite
I06 3 /27.5°W Telediario (Teledaily): Noticias (News).
I10 1 /53.0°W 24 Horas (24 Hours): Noticiario (News).
I10 14 /53.0°W Espana Frente a la Visita del Presidente (Spain Facing The President's Visit)

0500 GMT

I01 24 /1.0°W ABC Nightline
I10 14 /53.0°W El Quehacer de la Palabra (The Duty of the Word)
I10 15 /53.0°W Simon and Simon: Detective series.
I10 22 /53.0°W Cierre (Close)
I10 5 /53.0°W La Entrevista de Hoy (Today's Interview)

0515 GMT

I10 5 /53.0°W Azul (Blue)

0530 GMT

I01 24 /1.0°W CNN Headline News
I10 1 /53.0°W Cine del Dos (Movie for Two)
I10 14 /53.0°W Blanco y Negro (White and Black)

0545 GMT

I10 5 /53.0°W El Humor Es Una Cosa Esplendorosa (Humor Is a Splendid Thing)

0600 GMT

I01 24 /1.0°W AFRTS Sign Off: With advisories if necessary, followed by CNN commercial feed.
I10 15 /53.0°W Special

0615 GMT

I10 5 /53.0°W Lo Nuestro (Ours): Formas de vida y costumbres del Mexicano (Forms of life and customs of the Mexican).

0630 GMT

I10 14 /53.0°W Ultima Edicion (Last Edition): Noticias (News).

0645 GMT

I10 5 /53.0°W Viva la Noche (Long Live the Night): Musica y humor (Music and humor).

0940 GMT

I04 5 /21.5°W Telecurso 1 Grau (Telecourse, 1st Level)

0945 GMT

I04 1 /21.5°W Programa Jimmy Swaggart: Religioso (Religious).

0950 GMT

I04 5 /21.5°W Telecurso 2 Grau (Telecourse, 2nd Level)

1000 GMT

I04 5 /21.5°W Bom Dia, Brasil (Good Morning, Brazil): Economico (Economics).

1015 GMT

I04 1 /21.5°W Terra Viva: Noticiario rural (Rural news).

1030 GMT

I04 1 /21.5°W Qualificacao Profissional (Professional Qualifications): Educativo (Educational).
I04 5 /21.5°W Bom Dia, Brasil (Good Morning, Brazil): Economico (Economics).
I06 5 /27.5°W Hola, Que Tal! (Hello, How's It Going!)

1045 GMT

I04 1 /21.5°W Show de Desenhos (Cartoons).

1100 GMT

I04 5 /21.5°W TV Mulher (TV Woman)
I05 24 /24.5°W Eurovision Brussels: European News Unilateral Exchanges.

1130 GMT

I04 1 /21.5°W Ao Despertar da Fe (To Awaken Faith): Religioso (Religious).
I05 24 /24.5°W CBS and NBC News Feeds from London

1200 GMT

I04 1 /21.5°W Ella (She): Programa feminino (Women's program).
I06 1 /27.5°W Verano Azul (Blue Summer)
I10 5 /53.0°W El Hombre y El Campo (Man and the Country): Informacion agropecuaria (Farming information).

1230 GMT

I04 5 /21.5°W Balao Magico (The Magic Balloon): Desenhos (Cartoons).
I07 24 /31.0°W Animales, Animales (Animals, Animals): Documental (Documentary).
I10 5 /53.0°W Capacitacion (Preparation)

1300 GMT

I01 24 /1.0°W Sign On
I06 1 /27.5°W Esper, El Defensor de la Tierra (Esper, the Defender of the Land)
I07 24 /31.0°W Buen Dia Maria (Good Day Maria): Clases de gimasia (Gymnastics classes).
I10 1 /53.0°W Hoy Mismo (Today In Itself): Noticias, variedades (News, variety).
I10 14 /53.0°W Desde Temprano (Since Early): Revista noticiera, cultural y deportiva (News reviews, cultural, sports reviews).
I10 15 /53.0°W News
I10 5 /53.0°W Secundaria Intensiva (Intensive High School)
S04 6 /14.0°W UPITN News from London

1315 GMT

S04 6 /14.0°W Intervision News Unilaterals

1330 GMT

I01 24 /1.0°W ABC World News AM

I06 1 /27.5°W La Carabina de Ambrosio (Amborsio's Rifle): Show comico-musical (Musical comedy).

1340 GMT

I04 1 /21.5°W A Maravilhosa Cozinha de Ofelia (Ofelia's Marvelous Kitchen): Culinaria (Culinary arts).

1400 GMT

F01 1 /8.0°W AITV News Paris

I01 24 /1.0°W NBC Today Show

I05 24 /24.5°W UPITN News London

I06 1 /27.5°W SPORTS-Futbol en Diferido (Soccer Match)

I06 5 /27.5°W La Abejita Maya (Maya, the Little Bee)

I07 24 /31.0°W Scuby Doo (Scooby Doo): Dibujos animados (Cartoons).

I10 22 /53.0°W Matinal Infantil (Children's Morning Show)

I10 5 /53.0°W Telesecundaria (Tele-High School)

1420 GMT

I04 1 /21.5°W Ella (She): Programa feminino (Women's program).

1430 GMT

I05 24 /24.5°W Visnews for Middle East and Europe

I06 5 /27.5°W Asi es la Vida (So Is Life)

I07 24 /31.0°W Popeye y Sus Amigos (Popeye and His Friends): Dibujos animados (Cartoons).

I10 15 /53.0°W Sun Up San Diego

I10 22 /53.0°W Mi Bella Genio (My Beautiful Genie)

1455 GMT

I04 1 /21.5°W Boa Vontade (Good Will): Religioso (Religious).

1500 GMT

I04 1 /21.5°W SPORTS-Esporte Total (Total Sports)

I06 5 /27.5°W Familia (Family)

I07 24 /31.0°W Vivir Bien (To Live Well)

1505 GMT

I10 22 /53.0°W La Cocina de Monica (Monica's Kitchen)

1510 GMT

I10 22 /53.0°W Festival de la Una (Festival at One): Concursos, canciones y humor (Contests, songs and humor).

1530 GMT

I04 1 /21.5°W Amor (Love): Variedades (Variety).

I04 5 /21.5°W R.J. TV: Noticias (News).

I06 1 /27.5°W La Mujer Arana (Spider Woman)

I07 24 /31.0°W Treinta-Treinta: Noticias (News).

I10 15 /53.0°W The New $25,000 Pyramid

1545 GMT

I04 5 /21.5°W SPORTS-TV Globo Esporte (World Sports): Noticias y esporte (News and sports).

1600 GMT

I01 24 /1.0°W CNN Headline News

I04 5 /21.5°W Hoje (Today)

I05 24 /24.5°W Eurovision Brussels: European News Unilateral Exchanges.

I06 1 /27.5°W La Ciudadela del Nino (The Child's Citadel)

I06 5 /27.5°W La Noticia: News.

I07 24 /31.0°W El Agente de CIPOL (The Agent from CIPOL): Serie (Series).

1630 GMT

I01 24 /1.0°W ESPN Sportscenter or CNN Headline News

I04 1 /21.5°W TV Crianca (Childrens' TV)

I04 5 /21.5°W NOVELA-Vale a Pena Ver de Novo (It's Worth the Trouble to Look Again)

I06 5 /27.5°W Almorzando con Orlando (Lunching With Orlando)

I10 15 /53.0°W Press Your Luck

1700 GMT

I01 24 /1.0°W CNN Take Two: Hour 2.

I05 24 /24.5°W Visnews London: Early evening news feeds for SABC Johannesburg.

I06 1 /27.5°W Sandokan Contra el Leopardo de Sarawk (Sandokan Against the Leopard of Sarawk)

I07 24 /31.0°W 20 Mujeres (20 Women): Periodistico (Journalistic).

I10 1 /53.0°W Vida Diaria (Living Diary)

I10 14 /53.0°W Sal Y Pimiento (Salt and Pepper)

S04 6 /14.0°W Vremya (Time): The Moscow Evening News, Sports, Weather.

1710 GMT

I10 22 /53.0°W Edicion Uno (First Edition): Noticias (News).

1730 GMT

I04 5 /21.5°W Sessao da Tarde (Afternoon Session)

I10 14 /53.0°W El Oficio de Ser Mujer (Women's Role)

1740 GMT

I10 22 /53.0°W Bianca Vidal: Serial.

1800 GMT

I06 1 /27.5°W Programa de la Orquesta Filarmonica de Colombia (Colombian Philharmonic Orchestra)

I06 5 /27.5°W El Encuentro (The Encounter)

I10 14 /53.0°W La Novela (The Novel)

I10 15 /53.0°W The Price is Right: Game show.

1815 GMT

I10 22 /53.0°W Coralito (Little Chorus)

1830 GMT

I01 24 /1.0°W PBS Firing Line

I10 1 /53.0°W Club del Hogar (The Home Club): Variedades, humorismo (Varieties, humor).

1900 GMT

I01 24 /1.0°W CNN Continues

I06 1 /27.5°W Pelicula (Movie)

I06 5 /27.5°W La Sultana

I07 24 /31.0°W Que Se Vengan los Chicos: Infantil (Children's programming).

I10 14 /53.0°W Oficio De (Function Of)

I10 15 /53.0°W NOVELA-The Young and the Restless

I10 22 /53.0°W El Hombre Increible (The Incredible Man)

1910 GMT

I05 24 /24.5°W OTI: SIN News.

1930 GMT

I01 24 /1.0°W To Be Announced

I04 5 /21.5°W Os Grandes Herois da Biblia (Grand Heros of the Bible)

I07 24 /31.0°W Telejuegos (Telegames): Infantil (Children's programming).

I10 14 /53.0°W Vamos a Todos Partes (Let's Go Everywhere)

1950 GMT

I08 24 /34.5°W UPITN DSSA News Unilaterals: Including Globo, Canadian CTV, and US network feeds.

2000 GMT

I01 24 /1.0°W To Be Announced

I06 3 /27.5°W Gasparin (Casper)

I06 5 /27.5°W Capitan Centella (Captain Spark)

I10 1 /53.0°W 24 Horas de la Tarde (24 Hours in the Afternoon): Noticias (News).

I10 14 /53.0°W Primera Edicion (First Edition): Noticias (News).

I10 15 /53.0°W News

I10 22 /53.0°W Dibujos Animados (Cartoons)

I10 5 /53.0°W El Que Sabe Sabe (He Who Knows Knows)

2015 GMT

I04 5 /21.5°W Caso Verdade (True Case): Dramatic series.

2020 GMT

I10 22 /53.0°W MOVIE-Tardes de Cine (The Afternoon Movie)

2030 GMT

I01 19 /1.0°W RTP News from Lisbon, Portugal

I01 24 /1.0°W CNN Headline News

I06 3 /27.5°W Magnificos Justicieros (Austere Magnificents)

I06 5 /27.5°W La Pequena Casa de la Pradera (Little House on the Prairie)

I10 1 /53.0°W Videoexitos (Video Outcomes)

I10 14 /53.0°W El Bazar (The Bazaar): Programa social (Social program).

I10 5 /53.0°W Capacitacion (Preparation)

2040 GMT

I05 24 /24.5°W Visnews London

2050 GMT

I04 5 /21.5°W NOVELA-A Gata Comeu

2100 GMT

I01 24 /1.0°W CNN Take Two: Hour 1

I04 1 /21.5°W Agente 86 (Get Smart): Serie (Series).

I06 3 /27.5°W Esper

I10 14 /53.0°W Ocio y Cultura (Leisure and Culture): Comentarios (Commentary).

I10 15 /53.0°W NOVELA-As the World Turns

I10 5 /53.0°W Guia de Cada Dia (Daily Guide)

2130 GMT

I04 1 /21.5°W Jeannie E Um Genio (I Dream of Jeannie): Seriado (Series).

I05 24 /24.5°W Visnews

I06 3 /27.5°W Mounstruos del Espacio (Monsters of Space)

I06 5 /27.5°W La Pequena Lulu (Little Lulu)

I10 1 /53.0°W Nuestro Cine Presenta-Los Duenos de la Accion (Our Movie Presentation-The Masters of Action)

I10 14 /53.0°W La Guia de Cada Dia (Each Day's Guide)

I10 15 /53.0°W Capitol

I10 5 /53.0°W Pequenos Viajeros (Little Travelers)

2145 GMT

I04 5 /21.5°W NOVELA-Um Sonho a Mais (Another Dream)

I07 24 /31.0°W La Sexta de ATC: Noticias (News).

2200 GMT

I01 24 /1.0°W AFRTS Advisory Block: Schedules, advisories and color bars.

I04 1 /21.5°W O Gordo y O Magro (Laurel and Hardy): Serie (Series).

I05 24 /24.5°W CBS International: News unilaterals to South America.

I06 3 /27.5°W Teleidiomos (Telelanguage)

I06 5 /27.5°W Contesta por Tio Simon (Contest for Uncle Simon)

I07 24 /31.0°W Que Dios Se Lo Pague (God Will Pay You)

I08 24 /34.5°W Globo TV NY: News feeds from NY to Rio de Janeiro.

I10 14 /53.0°W A Traves de la Imaginacion (Through the Imagination)

I10 15 /53.0°W NOVELA-Guiding Light

I10 22 /53.0°W Segunda Franja Cultural (Second Cultural Fringe)

I10 5 /53.0°W El Hada Chappie (Chappie the Fairy): Dibujos animados (Cartoons).

2210 GMT

I05 24 /24.5°W NBC News Feeds

2215 GMT

I04 1 /21.5°W Jornal do Rio: Noticias (News).

2230 GMT

I01 24 /1.0°W ABC World News Tonight

I04 1 /21.5°W Jornal Bandeirantes: Noticias nacionais y

THE AMERICAS

All times are Greenwich Meridian time

internacionais (National and international news).
I06 3 /27.5°W Gente del Manana (Tomorrow's People)
I10 14 /53.0°W La Casa de Paco (Paco's House)
I10 5 /53.0°W Mi Mundo de Cabeza: Cuentos clasicos infantiles (Classic children's tales).

2245 GMT

I04 5 /21.5°W R.J. TV: Noticias (News).
I10 14 /53.0°W Program de Partidos Politicos (Program of Political Parties)

2255 GMT

I04 5 /21.5°W Jornal Nacional (National Journal): Noticias (News).

2300 GMT

I01 24 /1.0°W NBC Nightly News
I04 1 /21.5°W M.A.S.H.: Comedia (Comedy).
I05 24 /24.5°W UPITN for Latin America
I06 1 /27.5°W Pelicula (Movie)
I06 3 /27.5°W Enciclopedia Britannica (Encyclopedia Britannica)
I06 5 /27.5°W Presencia Latina (Latin Presence)
I07 24 /31.0°W Fama (Fame): Serie (Series).
I10 1 /53.0°W El Tesoro del Saber (The Treasure of Knowledge)
I10 14 /53.0°W Grandes Maestros del Arte Popular (Grand Maestros of Popular Art)
I10 15 /53.0°W Hour Magazine
I10 22 /53.0°W La Torre 10 (The Bullfight 10)
I10 5 /53.0°W Sabias Tu Que... (You Know That...)

2320 GMT

I04 5 /21.5°W Corpo a Corpo (Body to Body)

2330 GMT

I01 24 /1.0°W CBS Evening News
I04 1 /21.5°W Oito E Meia (Eight and a Half): Variedades (Variety).
I06 3 /27.5°W Disco Club: Pop music videos.
I10 1 /53.0°W NOVELA-Abandonada (Abandoned)
I10 14 /53.0°W NOVELA-Lupita
I10 22 /53.0°W 60 Minutos (60 Minutes): Noticias (News).
I10 5 /53.0°W Mas Alla de la Imagen (Farther from the Image): Un viaje al mundo del arte (A trip to the world of art).

2355 GMT

I06 5 /27.5°W Mafalda

SATURDAY

0000 GMT

I01 24 /1.0°W CNN Continues
I06 5 /27.5°W Las Noticias de VTV (News From VTV)
I07 24 /31.0°W 30 Millones (30 Million): Noticias (News).
I10 1 /53.0°W NOVELA-Principessa
I10 14 /53.0°W Musica y Algo Mas (Music and Something More)
I10 5 /53.0°W Los Estados de Mexico (The States of Mexico)

0015 GMT

I04 1 /21.5°W Batalha do Amor ((Love Battle): Variedades (Variety).
I04 1 /21.5°W Emporio Brasileiro (Brazilian Emporium)

0020 GMT

I04 5 /21.5°W Missao Secreta (Secret Mass)

0030 GMT

I06 3 /27.5°W Telediario (Teledaily): Noticias (News).
I06 5 /27.5°W Dossier
I10 1 /53.0°W NOVELA-Los Anos Pasan (The Years Pass)
I10 22 /53.0°W Noche de Peliculas (Movies Night)
I10 5 /53.0°W Videomundo (Videoworld)

0100 GMT

I01 24 /1.0°W CBS Evening News: West Coast Feed
I06 1 /27.5°W Noticiero Promec (Promec News)
I06 3 /27.5°W Especial Musical (Special Musical)
I06 5 /27.5°W Baila Conmigo (Dance With Me)
I07 24 /31.0°W Los Especiales de ATC: Pelicula (Movie).
I10 1 /53.0°W NOVELA-Juana Iris
I10 14 /53.0°W Nombre y Renombre (Name and Fame)
I10 15 /53.0°W Buck Rogers
I10 5 /53.0°W La Hazana de Mexico (Mexico's Feat)

0115 GMT

I04 1 /21.5°W Missao Impossivel (Mission: Impossible)
I04 5 /21.5°W Sangue, Suor E Lagrimas (Blood, Sweat and Tears)

0130 GMT

I01 24 /1.0°W MacNeil, Lehrer Report
I06 1 /27.5°W Nace Una Cancion (A Song Is Born)
I10 1 /53.0°W Xe Tu, Super Musical: Concurso (Contest).

0155 GMT

I10 1 /53.0°W 24 Horas Informa: Noticias (News).

0200 GMT

I06 3 /27.5°W Los Rivales de Sherlock Holmes (The Rivals of Sherlock Holmes)
I06 5 /27.5°W SPORTS-Boxeo (Boxing)
I10 1 /53.0°W Chiquilladasde
I10 14 /53.0°W La Vida de Verdi (Verdi's Life)
I10 15 /53.0°W NBC News
I10 22 /53.0°W Edicion Dos: Noticias (News).
I10 5 /53.0°W SPORTS-Meta 86 (Objective 86)

0215 GMT

I04 1 /21.5°W Jornal da Noite (Night Journal): Noticias (News).
I04 5 /21.5°W Jornal da Globo (World Journal): Noticias (News).

0225 GMT

I04 1 /21.5°W Dinheiro (Money): Economia (Economy).

0230 GMT

I01 24 /1.0°W CNN Continues
I04 1 /21.5°W Cine Misterio (Mystery Movie): Filmes de terror y misterio (Films of terror and mystery).
I10 1 /53.0°W Cachun, Cachun, Ra, Ra (Boom Boom, Rah Rah): Comedia musical (Musical comedy).
I10 15 /53.0°W That's Incredible

0245 GMT

I04 5 /21.5°W R.J. TV: Noticias (News).

0250 GMT

I04 5 /21.5°W Coruja Colorida

0255 GMT

I10 22 /53.0°W Cine Nocturno (Nighttime Movie)

0300 GMT

I06 1 /27.5°W Pelicula (Movie)
I06 3 /27.5°W Cine Como en El Cine (Movie Like At The Movies)
I07 24 /31.0°W Titulares (Titles): Informativo (Report).
I10 1 /53.0°W Mi Secretaria (My Secretary)
I10 14 /53.0°W Siete Dias (Seven Days): Noticias (News).
I10 15 /53.0°W Entertainment Tonight
I10 5 /53.0°W Alegrias y Pepitorias (Merriment): Comedia (Comedy).

0315 GMT

I07 24 /31.0°W Kenia Sharp Club: Serie (Series).

0330 GMT

I01 24 /1.0°W NBC Tonight Show starring Johnny Carson
I10 1 /53.0°W NOVELA-Tu O Nadie (You Or Nobody)
I10 14 /53.0°W La Fundacion (The Foundation)
I10 15 /53.0°W San Diego At Large
I10 5 /53.0°W Flores de Asfalto (Asphalt Flowers): Musical juvenil (Music for youths).

0355 GMT

I10 1 /53.0°W Avance de 24 Horas (Advence of 24 Hours)

0400 GMT

I10 1 /53.0°W NOVELA-Angelica
I10 15 /53.0°W The Dukes of Hazzard
I10 5 /53.0°W Dia a Dia: Noticiario (News).

0430 GMT

I01 24 /1.0°W CNN Sports Tonite
I06 3 /27.5°W Telediario (Teledaily): Noticias (News).
I10 1 /53.0°W 24 Horas (24 Hours): Noticiario (News).
I10 14 /53.0°W Anatomias (Anatomy)

0500 GMT

I01 24 /1.0°W ABC Nightline
I06 5 /27.5°W Despedida
I10 15 /53.0°W Dallas
I10 5 /53.0°W La Entrevista de Hoy (Today's Interview)

0515 GMT

I10 5 /53.0°W Cine Mexicano (Mexican Movie)

0530 GMT

I01 24 /1.0°W CNN Headline News
I10 1 /53.0°W En Vivo (Live)
I10 14 /53.0°W El Nuevo a Capa y Espada (The New Cape and Sword)

0600 GMT

I01 24 /1.0°W AFRTS Sign Off: With advisories if necessary, followed by CNN commercial feed.
I10 15 /53.0°W Falcon Crest

0630 GMT

I10 14 /53.0°W Ultima Edicion (Last Edition): Noticias (News).

0940 GMT

I04 5 /21.5°W Telecurso 2 Grau (Telecourse,2nd Level)

0955 GMT

I04 5 /21.5°W Telecorso 1 Grau (Telecourse,1st Level)

1000 GMT

I04 1 /21.5°W : Boa Vontade (Good Will)

1030 GMT

I04 1 /21.5°W O Gordo E O Magro (Laurel and Hardy)

1100 GMT

I04 1 /21.5°W Rincao Brasileiro (Ancient Brazilian): Musica regional (Regional music).
I06 5 /27.5°W Asi Es Mi Tierra (So Is My Land)

1115 GMT

I04 5 /21.5°W Telecorso 1 Grau (Telecourse,1st Level)

1135 GMT

I04 5 /21.5°W Journal Do Estudante (Student's Journal)

1150 GMT

I04 5 /21.5°W Zero a Seis (Zero to Six)

1200 GMT

I04 1 /21.5°W Sabado Feliz (Lucky Saturday): Infantil (Children's programming).
I06 5 /27.5°W La Pandillita (The Little Gang)

1210 GMT

I04 5 /21.5°W Globo Shell Profissoes (Globe Shell Professions)

1225 GMT

I06 1 /27.5°W Semana Deportiva (Sports Week)

1230 GMT

I04 5 /21.5°W Brasil,Terra da Gente (Brazil,Land of the People)
I06 5 /27.5°W Funny Company

1300 GMT

All times are Greenwich Meridian time

I01 24 /1.0°W AFRTS Sign On: Schedules, advisories and color bars.
I04 5 /21.5°W Balao Magico (The Magic Balloon: Children's programming.
I06 5 /27.5°W El Rey Arturo (King Arthur)
I10 1 /53.0°W Hoy Mismo (Today In Itself): Noticias, variedades (News, variety).
I10 14 /53.0°W Desde Temprano (Since Early)
I10 15 /53.0°W Cartoon Special Morning Line Up
I10 5 /53.0°W Actualizacion Docente: Educational.
S04 6 /14.0°W UPITN News from London

1315 GMT

S04 6 /14.0°W Intervision News Unilaterals

1325 GMT

I06 1 /27.5°W Los Cuatro Fantasticos (The Fantastic Four): Dibujos animados (Cartoons).

1330 GMT

I01 24 /1.0°W CNN Headline News
I06 5 /27.5°W Matinal Musical (Morning Musical)
I07 24 /31.0°W La Fe del Hombre (Man's Faith)
I10 22 /53.0°W Teleduc '84

1355 GMT

I06 1 /27.5°W La Abeja Maya (Maya, the Bee): Dibujos animados (Cartoons).

1400 GMT

F01 1 /8.0°W AITV News Paris
I01 24 /1.0°W PBS Washington Week In Review
I07 24 /31.0°W Sabado Libre (Free Saturday): Infantil (Children's programming).

1425 GMT

I06 1 /27.5°W Los Superamigos (Superfriends): Dibujos animados (Cartoosn).

1430 GMT

I01 24 /1.0°W Navy News This Week
I04 1 /21.5°W Clube de Bolinha (Bolinha's Club): Show de auditorio (Amateur variety).

1450 GMT

I10 22 /53.0°W La Naturaleza y El Hombre (Nature and Man)

1500 GMT

I01 24 /1.0°W CNN Continues
I06 1 /27.5°W Bugs Bunny: Dibujos animados (Cartoons).
I06 5 /27.5°W Dimension
I07 24 /31.0°W Que se Vengan los Chicos (Which Children Will Come): Infantil (Children's programming).
I10 14 /53.0°W Sabados del 13 (Saturdays of 13)
I10 5 /53.0°W Forjadores de la Historia (Forgers of History)

1515 GMT

I10 22 /53.0°W Ciudad Del Sol (City of the Sun): Documental (Documentary).

1525 GMT

I04 5 /21.5°W SPORTS-Globo Esporte (World Sports)

1530 GMT

I01 24 /1.0°W CNN Headline News
I06 1 /27.5°W Estudio 80 (Studio 80): Concurso juvenil (Juvenile constest).

1540 GMT

I10 22 /53.0°W SPORTS-Deportes Espectaculares (Spectacular Sports)

1545 GMT

I04 5 /21.5°W R.J. TV: Noticias (News).

1600 GMT

I01 24 /1.0°W CBS Sports Event
I04 5 /21.5°W Hoje (Today)
I06 1 /27.5°W Heman: Dibujos animados (Cartoons).
I06 5 /27.5°W Favoritos de Monitor Hipico (Favourites of the Horse Races)
I07 24 /31.0°W Por Siempre Chaplin (Chaplin Forever): Secuencias de peliculas de Chalie Chaplin (Sequence of Charlie Chaplin movies).
I10 5 /53.0°W SPORTS-Deporte Amateur (Amateur Sports)

1630 GMT

I06 1 /27.5°W La Mujer Bionica (Bionic Woman)

1640 GMT

I04 5 /21.5°W MOVIE-Festival Jerry Lewis (Jerry Lewis Festival)

1650 GMT

I10 22 /53.0°W Sabados Gigantes (Big Saturdays): Variedades (Variety).

1700 GMT

I01 24 /1.0°W ABC Wide World of Sports or other major sporting event
I06 3 /27.5°W Dibujos Animados (Cartoons)
I06 5 /27.5°W SPORTS-Beisbol de Grandes Ligas (Big League Baseball)
I07 24 /31.0°W El Hombre de la Atlantida (The Man from Atlantis): Serie (Series).
I10 1 /53.0°W Vida Diaria (Living Diary)
S04 6 /14.0°W Vremya (Time): The Moscow Evening News, Sports, Weather.

1730 GMT

I06 1 /27.5°W Nueva Estrella de las Canciones (The New Star of Song)

1800 GMT

I06 1 /27.5°W El Tiempo es Oro (Time is Gold): Programa concurso (Game show).
I06 3 /27.5°W Tropical Andino (Tropical Andean)
I10 1 /53.0°W Foro Adulto (Adult Forum): Mesa redonda (Round table).
I10 14 /53.0°W Televidente (Televiewers)
I10 5 /53.0°W XI Festival Internacional Cervantino (XI International Festival Cervantino)

1830 GMT

I04 1 /21.5°W SPORTS-Futbol au Vivo (Live Soccer)
I04 5 /21.5°W Cassino do Chacrinha (Chacrinha's Casino): Variedades (Variety).
I08 24 /34.5°W NBC Sports NY

1900 GMT

I01 24 /1.0°W CBS Collegiate basketball or other major sporting event
I06 1 /27.5°W Telesemana (Teleweek)
I06 3 /27.5°W Historia de la Navegacion (The History of Navigation)
I10 14 /53.0°W Historia de Un Cantar (History of a Singer)
I10 15 /53.0°W Usually Sports de Movie
I10 5 /53.0°W Las Cuentas Claras (Clear Accounts): Informacion financiera (Finance information).

1930 GMT

I06 3 /27.5°W Huellas del Pasado (Traces of the Past)

2000 GMT

I06 1 /27.5°W Magnum, P.I.
I06 3 /27.5°W Historia de la Aviacion (The History of Aviation)
I06 5 /27.5°W Sabado de Pelicula (Saturday Movie)
I10 1 /53.0°W 24 Horas de la Tarde (24 Hours in the Afternoon)Noticiario (News).
I10 14 /53.0°W Lo Que El Tiempo se Llevo (That Which Time Brings)
I10 5 /53.0°W Semana Laboral (Labor Week)

2030 GMT

I01 19 /1.0°W RTP News from Lisbon, Portugal
I06 3 /27.5°W Manni El Libero
I10 1 /53.0°W 60 Minutos (60 Minutes)
I10 5 /53.0°W Documental (Documentary)

2040 GMT

I05 24 /24.5°W Visnews London

2045 GMT

I10 5 /53.0°W Partidos Politicos (Political Parties)

2050 GMT

I04 5 /21.5°W Livre Para Voar (Free To Fly)

2100 GMT

I04 1 /21.5°W Na Deira Da Tuia: Musica regional (Regional music).
I06 1 /27.5°W Mision Imposible (Mission: Impossible)
I06 3 /27.5°W Entretenimiento Musical (Musical Entertainment)
I07 24 /31.0°W Dejalo Ser: Periodistico (Journalistic).
I10 14 /53.0°W El Congreso del Trabajo (The Work Convention)
I10 5 /53.0°W SPORTS-Toros (Bullfights)

2130 GMT

I10 1 /53.0°W MOVIE-Teatro Alameda (Park Theater): Pelicula (Movie).
I10 14 /53.0°W Los Descendientes (The Descendents)
I10 15 /53.0°W SPORTS-Sports Saturday

2155 GMT

I04 5 /21.5°W Vereda Tropical (Tropical Footpath)

2200 GMT

I04 1 /21.5°W SPORTS-Momento do Esporte (A Moment in Sports)
I05 24 /24.5°W CBS International: News unilaterals to South America.
I06 1 /27.5°W Pareja Audaz (Daring Pair)
I06 3 /27.5°W La Matine del 7 (The Matinee of 7)
I06 5 /27.5°W Liga Especial de Baloncesto (Special League Basketball)
I07 24 /31.0°W ATC Rally Turismo (ATC Tourist Rally)
I08 24 /34.5°W Globo TV NY: News feeds from NY to Rio de Janeiro.
I10 5 /53.0°W SPORTS-Beisbol (Baseball)

2215 GMT

I04 1 /21.5°W Jornal de San Paulo: Noticias locais (Local news).

2230 GMT

I04 1 /21.5°W Jornal Bandeirantes: Noticias nacaionais y internacioanais (National and international news).
I10 14 /53.0°W Mexico Desconocido (The Unknown Mexico)

2245 GMT

I04 5 /21.5°W R.J. TV: Noticias

2300 GMT

I04 1 /21.5°W Sucessos do Radio (Radio Hits): Video clips.
I04 5 /21.5°W Jornal Nacional (National Journal): Noticias (News).
I06 1 /27.5°W Gaceta (Gazette)
I07 24 /31.0°W Historias de la Argentina Secreta (Stories of the Secret Argentina): Documental (Documentary).
I10 14 /53.0°W Maria

2325 GMT

I10 22 /53.0°W Hasta Manana (Until Tomorrow): Children's programming.

2330 GMT

I04 5 /21.5°W NOVELA-Partido Alto (High Stakes)
I06 3 /27.5°W El Pais en Que Vivimos (The Country Where We Live)
I10 1 /53.0°W Estrellas de los 80's (Stars of the 80's)
I10 22 /53.0°W Teletrece (Telethirteen)

2355 GMT

I06 1 /27.5°W Boletin de Consumidor (Consumers Bulletin)

Indian & Pacific Ocean Regions

INTELSAT IVA

Satellite	Location	Tr.#	Tr. Beam	Tr. Type	Polarization/ Center Frequency	Service Description/Country	Audio Info	Estimated Beam-Edge EIRP
I-IVA—F06	174.0 E	24	Global Beam	Full	RH-4175	**International News and Sports Feeds**	—	—
I-IVA—F03	179.0 E	5	Global Beam	Half	RH-3805	**CNN and NBC**—Los Angeles	Multiplex	—
I-IVA—F03	179.0 E	5	Global Beam	Half	RH-3805	**CBS and ABC**—Los Angeles	Multiplex	—
I-IVA—F03	179.0 E	9	West Hemi	Full	RH-3885	**Australian Broadcasting Co.**—ABQ-2, Brisbane	—	25 dBW
I-IVA—F03	179.0 E	14	West Hemi	Full	RH-3975	**Australian Broadcasting Co.**—ABW-2, Perth	—	25 dBW
I-IVA—F03	179.0 E	18	West Hemi	Full	RH-4015	**JISO**—Japan	—	—
I-IVA—F03	179.0 E	22	West Hemi	Full	RH-4055	**American Forces Radio and Television Service**	—	26 dBW
I-IVA—F03	179.0 E	24	Global Beam	Half/Full	RH-4175	**International News and Sports Feeds**	—	—

INTELSAT V

I-V—F01	57.0 E	20	Global Beam	Full	RH-4095	**Oman Television**	SCPC	19 dBW
I-V—F01	57.0 E	16	East Hemi	Quarter	RH-3995	**Thailand**—Non-video lease	—	—
I-V—F07	60.0 E	24	Global Beam	Half/Full	RH-4177.5	**International News and Sports Feeds**	6.6 MHz S/C	—
I-V—F05	63.0 E	24	Global Beam	Half/Full	RH-4177.5	**Occasional Video**—Regular news feeds between Europe and Australia	6.6 MHz S/C	—

GORIZONT

GORIZONT 9	53.0 E	– 1	Spot Beam	Full	RH-3675	**I Programma**—Soviet Television, Moscow	7.0 MHz Audio S/C	—
GORIZONT 9	53.0 E	9	North Hemi	Full	RH-3875	**II Programma**—Soviet Television, Moscow	Sound-in-sync	—
GORIZONT 8	90.0 E	– 1	Spot Beam	Full	RH-3675	**II Programma**—Soviet Television, Siberian edition	7.0 MHz Audio S/C	—
GORIZONT 8	90.0 E	9	North Hemi	Full	RH-3875	**I Programma**—Soviet Television, Moscow	Sound-in-sync	—
GORIZONT 6	140.0 E	– 1	Spot Beam	Full	RH-3675	**II Programma**—Soviet Television, Moscow	7.0 MHz Audio S/C	—
GORIZONT 6	140.0 E	9	North Hemi	Full	RH-3875	**I Programma**—Soviet Television, Moscow	Sound-in-sync	—

RADUGA

RADUGA	84.0 E	1	Spot Beam	Full	RH-3675	**II Programma**—Soviet Television, Moscow	7.5 MHz S/C	—
RADUGA	84.0 E	9	North Hemi	Full	RH-3875	**I Programma**—Soviet Television, Moscow	Sound-in-sync	—

PALAPA A2

PALAPA A02	77.0 E	5	Spot Beam	Full	H-3800	**RPN 9 TV**—Manila, the Philippines	4.8 – 5.0 MHz S/C	—
PALAPA A02	77.0 E	9	Spot Beam	Full	H-3920	**RTM 2 (Warna 2) TV**—Kuala Lumpur, Malaysia	6.5 MHz S/C	—
PALAPA A02	77.0 E	14	Spot Beam	Full	H-3980	**QTR 7**—Indonesia Television	—	—
PALAPA B01	108.0E	8	Spot Beam	Full	V-3860	**TBS 7 TV**—Bangkok, Thailand	—	—
PALAPA B01	108.0E	10	Spot Beam	Full	V-3900	**RTM 1 (Warna 1) TV**—Kuala Lumpur, Malaysia	6.5 MHz S/C	—
PALAPA B01	108.0E	12	Spot Beam	Full	V-3940	**Army Channel 5 TV**—Bangkok, Thailand	6.5 MHz S/C	—
PALAPA B01	108.0E	15	Spot Beam	Full	H-4000	**TVRI TV**—Indonesia	—	—

YURI

YURI BSE-02	110.0 E	1	Yuri Spot Beam	Full	LP-11.71398	**NHK-TV Tokyo**—PCM digital transmissions	—	—

INSAT

INSAT 1-B	74.0 E	S*	Spot Beam	Full	LP-2575	**TV India**	—	—
INSAT 1-B	74.0 E	S*	Spot Beam	Full	LP-2615	**TV India**	—	—

RH = right-hand circular polarization **LH** = left-hand circular polarization **H** = horizontal polarization * S-band transponders between 2.50 – 2.69 GHz

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Indian & Pacific Ocean Regions

I = INTELSAT (INT)
S = STATSIONAR
P = PALAPA

The following international satellite programming guide represents a typical satellite TV schedule for TVRO operators in India, Australia, the Pacific Islands, and the Far East. The Australian Broadcasting Commission (ABC) TV originates from Brisbane and Perth, providing east and west coast editions of ABC programming by Intelsat. The American Forces Radio and Television Service (AFRTS) provides American TV programs to U.S. military personnel stationed in Korea and in the Philippines.

Also contained in our Pacific Region schedule is a listing for TV Manila, Radio-Television Malaysia channels 1 and 2, and TBS channels 5 and 7 from Bangkok, Thailand, all of which are currently carried by the Palapa A2 or Palapa B1 satellites, and two transponders of programming carried on the Gorizont satellite at 53 degrees east longitude. We expect other services now carried by Palapa A2 to relocate to Palapa B1 in the weeks ahead. Typical programming is also listed for NHK-TV Tokyo, which appears on the Japanese Yuri DBS satellite. Additional program schedules for other world-class satellite services will be added in the months ahead.

ID. NO.	SATELLITE	TR. #	BEAM	SERVICE
I17	Int. V FI	20	Global	TV Oman
I16	Int. V F7	24	Global	International News Feeds
P02	Palapa A02	5	Spot Beam	RPN 9 TV, Manila, the Philippines
P02	Palapa A02	9	Spot Beam	Warner-TV 5, Kuala Lumpur, Malaysia
P03	Palapa B01	8	Spot Beam	TBS-7, Bangkok, Thailand
P03	Palapa B01	10	Spot Beam	Warner-TV 7, Kuala Lumpur, Malaysia
P03	Palapa B01	12	Spot Beam	TBS-5, Bangkok, Thailand
B02	Yuri BSE-02	1*	Spot Beam	NHK-TV, Tokyo, Japan
I13	Int. IVA F6	24	Global	International News Feeds
I11	Int. IVA F3	9	West Hemi	ABQ Channel 2, Brisbane (ABC)
I11	Int. IVA F3	14	West Hemi	ABW Channel 2, Perth (ABC)
I11	Int. IVA F3	22	West Hemi	AFRTS (American Forces Radio and Television Service)

*Ku-band transponder at 11.71398 GHz

All times are Greenwich Meridian time

SUNDAY

0000 GMT

I11 14 /179.0°E SPORTS-Rugby World
I11 22 /179.0°E SPORTS-ESPN Sports
I11 9 /179.0°E Magpie Special
P02 5 /77.0°E Herbert W. Armstrong: Religious.

0025 GMT

I11 9 /179.0°E Alexander Bunyip's Billabong

0030 GMT

I11 9 /179.0°E Kimba the White Lion: "G".

0055 GMT

I11 9 /179.0°E Dr. Snuggles

0100 GMT

I11 14 /179.0°E Playmates: Children's programming.
I11 9 /179.0°E Divine Service: Sunday church services.
P03 12 /108.0°E Religious

0115 GMT

P03 8 /108.0°E Buddhist Preacher

0130 GMT

P03 12 /108.0°E Local News
P03 8 /108.0°E See Yod Kumarn: Thai series.

0200 GMT

I11 14 /179.0°E Magpie Special
I11 9 /179.0°E Countrywide
P03 12 /108.0°E Kai Butsu Kun: Japanese cartoon.

0225 GMT

I11 14 /179.0°E Alexander Bunyip's Billabong

0230 GMT

I11 14 /179.0°E Kimba the White Lion: "G".
I11 9 /179.0°E Four Corners
P03 12 /108.0°E Chao Hoon Phaen Yark
P03 8 /108.0°E Joy To Travel

0255 GMT

I11 14 /179.0°E Dr. Snuggles

0300 GMT

I11 14 /179.0°E Divine Service: Sunday church services.
P03 12 /108.0°E Phanan Rak: Thai drama.
P03 8 /108.0°E Charlie Van: Japanese series.

0320 GMT

I11 9 /179.0°E Season of Shakespeare: New "G" rated series.

0330 GMT

I11 22 /179.0°E SPORTS-CNN Sports Tonite

0340 GMT

P03 8 /108.0°E Chumtang Khon Den: Music Contest.

0400 GMT

I11 14 /179.0°E Countrywide
I11 22 /179.0°E CNN Week in Japan
P03 12 /108.0°E Phobkakn Wan Arthit: Entertainment.

0430 GMT

I11 14 /179.0°E Four Corners
I11 22 /179.0°E CNN Headline News
P03 8 /108.0°E One Golden Minute

0500 GMT

I11 22 /179.0°E AFRTS Sign Off or CNN Headline News
P03 12 /108.0°E Thieng Wan Arthit

0520 GMT

I11 14 /179.0°E Season of Shakespeare: New "G" rated series.

0530 GMT

P03 12 /108.0°E Lok Dontree: Music program.

0545 GMT

I11 9 /179.0°E SPORTS-Netball

0600 GMT

P03 8 /108.0°E SPORTS-Channel 7 Sports

0630 GMT

P03 12 /108.0°E Laek Nam Pee: Thai drama.

0700 GMT

I11 9 /179.0°E SPORTS-The Winners: Replay of the highlights from three V.F.L. matches.
P02 9 /77.0°E Sign On, Quran Reading
P03 10 /108.0°E Sign On
P03 12 /108.0°E Roum Dao Sao Siam
P03 8 /108.0°E SPORTS-Thai Boxing

0710 GMT

P02 9 /77.0°E Program Summary
P03 10 /108.0°E Program Summary

0720 GMT

P02 9 /77.0°E MOVIE-Afternoon Movie
P03 10 /108.0°E Variety

0745 GMT

I11 14 /179.0°E SPORTS-Netball

0800 GMT

I11 9 /179.0°E Countdown: Pop show.
P02 5 /77.0°E Kid's World: Children's news program.
P03 12 /108.0°E Dara Pha Sanuk

0815 GMT

P03 10 /108.0°E MOVIE-Chinese Movie: Mandarin.

0830 GMT

P03 12 /108.0°E Suantrang Thaen: Thai drama.

0845 GMT

P02 9 /77.0°E Kesuma: Talk, cooking and public interest items.

0900 GMT

I11 14 /179.0°E SPORTS-The Winners: Replay of the highlights from three V.F.L. matches.
I11 9 /179.0°E Weekend National: News, sport and weather.
P02 5 /77.0°E Nickelodeon: Children's program.

0930 GMT

I11 9 /179.0°E Vietnam: "G".
P02 9 /77.0°E Waktu Berbuka Puaka Dan Insak
P03 12 /108.0°E SPORTS-Boxing: Live from Rajdamnern Stadium.
P03 8 /108.0°E Gate of Fortune

0945 GMT

P02 9 /77.0°E Bimbingan Agama
P03 10 /108.0°E Sekali Peristiwa

1000 GMT

I11 14 /179.0°E Countdown: Pop show.
P02 5 /77.0°E Fraggle Rock: Children's program.
P02 9 /77.0°E News

1005 GMT

P03 10 /108.0°E Iman

1015 GMT

P02 9 /77.0°E Egyptian Drama: Arabic with subtitles.
P03 10 /108.0°E Keluarga

1025 GMT

I11 9 /179.0°E Strangers and Brothers: "PGR".

1030 GMT

P02 5 /77.0°E The Price is Right: US Game show.
P03 8 /108.0°E Captain Harlock

1100 GMT

I11 14 /179.0°E Weekend National: News, sport and weather.
I17 20 /57.0°E Royal Anthem-Holy Koran
P02 9 /77.0°E Sylar Ramadan: Religious.
P03 10 /108.0°E News: Tamil.
P03 12 /108.0°E Sebastian: Cartoon.

1120 GMT

I11 9 /179.0°E Africa
P03 10 /108.0°E Documentary

1130 GMT

I11 14 /179.0°E Vietnam: "G".
I17 20 /57.0°E Cartoon: Children's programming.
P02 5 /77.0°E Super Star: Variety.
P02 9 /77.0°E Square Pegs: US Comedy.
P03 10 /108.0°E Kebun Kita
P03 12 /108.0°E Close: Test Pattern.
P03 8 /108.0°E Close: Test Pattern.

1200 GMT

P02 9 /77.0°E National News
P03 10 /108.0°E National News

1225 GMT

I11 14 /179.0°E Strangers and Brothers: "PGR".
I11 9 /179.0°E Nureyev: "PGR".
P02 9 /77.0°E Evening Program Summary
P03 10 /108.0°E Evening Program Summary

1230 GMT

P02 9 /77.0°E Business Nippon

1245 GMT

I17 20 /57.0°E Educational Program
P03 10 /108.0°E Drama Playhouse: Malaysian dramatic series.

1300 GMT

I11 22 /179.0°E AFRTS Sign On: Schedules, advisories and color bars.
P03 12 /108.0°E News
P03 8 /108.0°E News

1315 GMT

I11 9 /179.0°E World of Music
P03 10 /108.0°E Quincy, M.E.: US series

1320 GMT

I11 14 /179.0°E Africa

1330 GMT

I11 22 /179.0°E CNN Headline News

1335 GMT

P02 9 /77.0°E Hadis Nabi: Religious.

1340 GMT

I17 20 /57.0°E Arabic Serial

1355 GMT

P03 8 /108.0°E Cartoon

1400 GMT

I11 22 /179.0°E CBS Sunday Morning
I11 9 /179.0°E Close
P03 12 /108.0°E Sonthana Panha Ban Muang: Political Talk.
P03 8 /108.0°E Sonthana Panha Ban Muang: Political Talk.

1410 GMT

P02 9 /77.0°E Variety Show
P03 10 /108.0°E Sukan

1425 GMT

I11 14 /179.0°E Nureyev: "PGR".

1430 GMT

I17 20 /57.0°E Cultural Program

1450 GMT

P02 9 /77.0°E Remington Steele: US series.
P03 10 /108.0°E Falcon Crest: US series.

1500 GMT

I17 20 /57.0°E News: Local.
P02 5 /77.0°E NBC Tonight Show starring Johnny Carson.
P03 8 /108.0°E Bitter Conflict: Chinese series.

1515 GMT

I11 14 /179.0°E World of Music

1520 GMT

P03 12 /108.0°E Japanese Series

1530 GMT

I11 22 /179.0°E ABC This Week With David Brinkley: U.S. current affairs program with interviews with government officials.
I17 20 /57.0°E Local Program
P02 5 /77.0°E MOVIE-Sunday Night Movie

1545 GMT

P02 9 /77.0°E Religious
P03 10 /108.0°E Religious Program
P03 12 /108.0°E News

PACIFIC OCEAN REGION

All times are Greenwich Meridian time

1555 GMT

P03 12 /108.0°E Kang Sadran: Musical show.

1600 GMT

I11 14 /179.0°E Close
I17 20 /57.0°E Religious Program
P03 8 /108.0°E Ching Choke Kab Ma Ma

1630 GMT

I11 22 /179.0°E CNN Headline News

1700 GMT

I11 22 /179.0°E SPORTS-Major Sports Event
I17 20 /57.0°E News: Arabic.

1730 GMT

I17 20 /57.0°E Arabic Serial

1830 GMT

I17 20 /57.0°E News: English.

1900 GMT

I17 20 /57.0°E Program Review

1905 GMT

I17 20 /57.0°E English Film

2000 GMT

I11 22 /179.0°E SPORTS-Major Sports Event

2030 GMT

I17 20 /57.0°E News in Brief-Holy Koran

2045 GMT

I17 20 /57.0°E Royal Anthem

2100 GMT

B02 1 /110.0°E Sign On

2115 GMT

B02 1 /110.0°E Farmer's Hour

2145 GMT

B02 1 /110.0°E NHK News Wide

2200 GMT

I11 9 /179.0°E Sesame Street: Children's programming.

2300 GMT

I11 22 /179.0°E CNN Headline News
I11 9 /179.0°E Mr Squiggle and Friends

2315 GMT

B02 1 /110.0°E Morning Drama

2330 GMT

B02 1 /110.0°E Morning Journal
P02 5 /77.0°E Newswatch: Filipino edition.

MONDAY

0000 GMT

I11 14 /179.0°E Sesame Street: Children's programming.
I11 22 /179.0°E CNN Continues
I11 9 /179.0°E Hunter

0020 GMT

I11 9 /179.0°E Lower Primary Social Studies

0030 GMT

B02 1 /110.0°E TV Kindergarten

0040 GMT

I11 9 /179.0°E Words and Pictures

0100 GMT

I11 14 /179.0°E Mr Squiggle and Friends
I11 22 /179.0°E CNN Headline News
I11 9 /179.0°E The Magic Bag

0105 GMT

B02 1 /110.0°E Today's Cooking

0120 GMT

I11 9 /179.0°E For the Juniors

0130 GMT

B02 1 /110.0°E Woman's Encyclopedia
I11 14 /179.0°E Play School: Children's programming.

0140 GMT

I11 9 /179.0°E Infinity LTD.

0200 GMT

B02 1 /110.0°E Your Health Guide
I11 14 /179.0°E Hunter
I11 9 /179.0°E Shakespeare in Perspective

0215 GMT

B02 1 /110.0°E Mother's Study Room

0220 GMT

I11 14 /179.0°E Lower Primary Social Studies

0230 GMT

I11 9 /179.0°E Six of the Best

0240 GMT

I11 14 /179.0°E Words and Pictures

0245 GMT

B02 1 /110.0°E Today's Program Guide: Weather Forecast (Including maritime).

0300 GMT

B02 1 /110.0°E News
I11 14 /179.0°E The Magic Bag
I11 22 /179.0°E SPORTS-CNN Sports Tonite
I11 9 /179.0°E Kontakte

0320 GMT

B02 1 /110.0°E Variety Show
I11 14 /179.0°E For the Juniors

0325 GMT

I11 9 /179.0°E What We Do Now

0330 GMT

I11 22 /179.0°E AFRTS Sign Off: With advisories if necessary, followed by CNN commercial feed.

0340 GMT

I11 14 /179.0°E Infinity LTD.

0345 GMT

B02 1 /110.0°E Drama

0400 GMT

I11 14 /179.0°E Shakespeare in Perspective

0405 GMT

B02 1 /110.0°E Drama

0425 GMT

B02 1 /110.0°E Knato-Koshinets Local Network

0430 GMT

I11 14 /179.0°E Six of the Best

0445 GMT

B02 1 /110.0°E Window of News

0500 GMT

B02 1 /110.0°E Celebrity Interview
I11 14 /179.0°E Kontakte
I11 9 /179.0°E Sesame Street: Children's programming.

0520 GMT

B02 1 /110.0°E Musical Variety (In stereo).

0525 GMT

I11 14 /179.0°E What We Do Now

0550 GMT

B02 1 /110.0°E TV Calisthenics

0555 GMT

I11 9 /179.0°E Captain Cookaburra's Australia

0600 GMT

I11 9 /179.0°E Play School: Children's programming.

0605 GMT

B02 1 /110.0°E TV's Cooking (Repeat).

0630 GMT

I11 9 /179.0°E Playaway: "G".

0700 GMT

I11 14 /179.0°E Sesame Street: Children's programming.
I11 9 /179.0°E Bang Goes The Budgie: Comical and informative show.

0705 GMT

B02 1 /110.0°E Your Health Guide (Repeat).

0720 GMT

B02 1 /110.0°E Music Album (In stereo).

0725 GMT

I11 9 /179.0°E To Be Announced

0730 GMT

B02 1 /110.0°E For the Aged
I11 9 /179.0°E Battle of the Planets

0755 GMT

I11 14 /179.0°E Captain Cookaburra's Australia
I11 9 /179.0°E Come and Get It

0800 GMT

I11 14 /179.0°E Play School: Children's programming.

0805 GMT

B02 1 /110.0°E TV Kindergarten (Repeat).
I11 9 /179.0°E Inspector Gadget: "G".

0830 GMT

I11 14 /179.0°E Playaway: "G".

I11 9 /179.0°E ABC National: News.

0845 GMT

B02 1 /110.0°E Cartoons

0900 GMT

B02 1 /110.0°E Puppet Play: Children's show.
I11 14 /179.0°E Bang Goes The Budgie: Comical and informative show.

0910 GMT

B02 1 /110.0°E Children's Quiz Show
P02 9 /77.0°E Program Summary
P03 10 /108.0°E Program Summary

0915 GMT

P02 9 /77.0°E Bimbingan Agama
P03 10 /108.0°E Electric Company: US Children's show.

0925 GMT

I11 14 /179.0°E To Be Announced

0930 GMT

B02 1 /110.0°E News Center: Domestic and local news.
I11 14 /179.0°E Battle of the Planets
I11 9 /179.0°E Fresh Fields: "G".
P02 9 /77.0°E Cumi Dan Ciki

0945 GMT

P02 9 /77.0°E Waktu Berbuka Puaka Dan Imsak
P03 10 /108.0°E Popeye: Cartoon.

0955 GMT

I11 14 /179.0°E Come and Get It
I11 9 /179.0°E Yes Minister: "G".

1000 GMT

B02 1 /110.0°E National and International News: Bilingual news in Japanese and English.
P02 5 /77.0°E Flor de Luna: Dramatic series.
P02 9 /77.0°E News
P03 10 /108.0°E Documentary

1005 GMT

I11 14 /179.0°E Inspector Gadget: "G".

1010 GMT

P02 9 /77.0°E Egyptian Drama Series

1030 GMT

B02 1 /110.0°E Evening Special (Occasional stereo).
I11 14 /179.0°E ABC National: News.
I11 9 /179.0°E Four Corners: Current affairs program.
P03 10 /108.0°E Diff'rent Strokes: US Comedy.

1100 GMT

B02 1 /110.0°E NHK Special Feature
I17 20 /57.0°E Royal Anthem-Holy Koran: Religious talk.
P02 5 /77.0°E Newswatch: Evening edition in English.

All times are Greenwich Meridian time

P02 9 /77.0°E Religious
P03 10 /108.0°E News: Tamil.

1110 GMT

I17 20 /57.0°E Cartoon: Children's programming.

1120 GMT

I11 9 /179.0°E Clive James in London
P02 9 /77.0°E Azan Magrib
P03 10 /108.0°E Fat Cat and Friends: Children's show.

1130 GMT

I11 14 /179.0°E Fresh Fields: "G".
P02 5 /77.0°E SPORTS-Fight Night: Boxing.
P02 9 /77.0°E M.A.S.H.: US Comedy.

1150 GMT

B02 1 /110.0°E Local News

1155 GMT

I11 14 /179.0°E Yes Minister: "G".

1200 GMT

B02 1 /110.0°E News Center 9
I17 20 /57.0°E Educational Program
P02 9 /77.0°E News and Weather
P03 10 /108.0°E News and Weather

1220 GMT

I11 9 /179.0°E A New World

1225 GMT

P02 9 /77.0°E News Round Up
P03 10 /108.0°E Program Summary

1230 GMT

I11 14 /179.0°E Four Corners: Current affairs program.
I17 20 /57.0°E Children's Program: English.
P02 5 /77.0°E To Each His Own: Variety
P02 9 /77.0°E Program Summary
P03 10 /108.0°E The History Makers: Documentary.

1235 GMT

P02 9 /77.0°E Talk Show

1240 GMT

B02 1 /110.0°E NOVELA-Minato-Eki: Soap opera

1250 GMT

I11 9 /179.0°E Burrows Collection
P02 9 /77.0°E Religious

1300 GMT

B02 1 /110.0°E Today's News and Sports
I11 22 /179.0°E Sign On
I17 20 /57.0°E Children's Program: Arabic.
P02 9 /77.0°E News: Mandarin.

1320 GMT

I11 14 /179.0°E Clive James in London

1325 GMT

P02 9 /77.0°E Perestiwa Khas
P03 10 /108.0°E SPORTS-Sports Time: Boxing.

1330 GMT

I11 22 /179.0°E ABC World News AM

P02 5 /77.0°E Cagney and Lacy: Detective series.

1340 GMT

I11 9 /179.0°E Close
I17 20 /57.0°E Arabic Serial

1345 GMT

P02 9 /77.0°E Hari Ini Dalam Sejarah: Today in History.

1350 GMT

P02 9 /77.0°E MOVIE-Movie Special: Western feature film.

1400 GMT

I11 22 /179.0°E NBC Today Show

1410 GMT

P03 10 /108.0°E Sukan

1420 GMT

I11 14 /179.0°E A New World

1430 GMT

B02 1 /110.0°E Today's Focus
I17 20 /57.0°E Cultural Program
P02 5 /77.0°E Vegas: US Drama series.
P03 10 /108.0°E News: English.

1435 GMT

B02 1 /110.0°E Personality of the Week: Hometown Network.

1440 GMT

I11 14 /179.0°E Close

1445 GMT

P03 10 /108.0°E Hari Ini Dalam Sejarah: Today in History.

1450 GMT

I11 14 /179.0°E Burrows Collection

1500 GMT

I17 20 /57.0°E News: Local.
P03 10 /108.0°E Music in Time: US Documentary.

1520 GMT

I17 20 /57.0°E Local Program

1530 GMT

P02 5 /77.0°E Newswatch: Final edition.

1600 GMT

I11 22 /179.0°E CNN Headline News
P02 9 /77.0°E Sign Off
P03 10 /108.0°E Sign Off

1615 GMT

I17 20 /57.0°E English Serial

1700 GMT

I11 22 /179.0°E CNN Take Two: Hour 2.
I17 20 /57.0°E News: Arabic.

1800 GMT

I11 22 /179.0°E CNN Headline News

1830 GMT

I11 22 /179.0°E CBS 60 Minutes
I17 20 /57.0°E News: English.

1900 GMT

I17 20 /57.0°E Program Review-Arabic Film

1930 GMT

I11 22 /179.0°E Meet the Press

2000 GMT

I11 22 /179.0°E Face the Nation
I13 24 /174.0°E UPITN News from Washington DC to NHK Japan

2030 GMT

I11 22 /179.0°E CNN Headline News
I16 24 /60.0°E Visnews London for Asia and Pacific
I17 20 /57.0°E News in Brief-Holy Koran

2045 GMT

I17 20 /57.0°E Royal Anthem

2100 GMT

B02 1 /110.0°E Sign On
I11 22 /179.0°E CNN Take Two: Hour 1.
I13 24 /174.0°E UPITN News from NY to Pacific

2115 GMT

B02 1 /110.0°E Farmer's Hour

2130 GMT

I16 24 /60.0°E Visnews London

2145 GMT

B02 1 /110.0°E NHK News Wide

2200 GMT

I11 22 /179.0°E AFRTS Advisory Block: Schedules, advisories and color bars.
I11 9 /179.0°E Sesame Street: Children's programming.

2230 GMT

I11 22 /179.0°E ABC World News Tonight

2300 GMT

I11 22 /179.0°E NBC Nightly News
I11 9 /179.0°E Mr. Squiggle and Friends

2315 GMT

B02 1 /110.0°E Morning Drama

2330 GMT

B02 1 /110.0°E Morning Journal
I11 22 /179.0°E CBS Evening News
I11 9 /179.0°E Play School: Children's programming.
P02 5 /77.0°E Newswatch: Filipino edition.

TUESDAY

0000 GMT

I11 14 /179.0°E Sesame Street: Children's programming.
I11 22 /179.0°E CNN Continues
I11 9 /179.0°E Behind the News

0020 GMT

I11 9 /179.0°E Music Time

0030 GMT

B02 1 /110.0°E TV Kindergarten

0040 GMT

I11 9 /179.0°E Families of the World

0100 GMT

I11 14 /179.0°E Mr. Squiggle and Friends
I11 22 /179.0°E MacNeil, Lehrer Report
I11 9 /179.0°E For the Juniors

0105 GMT

B02 1 /110.0°E Today's Cooking

0120 GMT

I11 9 /179.0°E The Media

0130 GMT

B02 1 /110.0°E Woman's Encyclopedia
I11 14 /179.0°E Play School: Children's programming.

0140 GMT

I11 9 /179.0°E Lower Primary Social Studies

0200 GMT

B02 1 /110.0°E Your Health Guide
I11 14 /179.0°E Behind the News
I11 22 /179.0°E CNN Headline News
I11 9 /179.0°E A New World

0215 GMT

B02 1 /110.0°E Mother's Study Room

0220 GMT

I11 14 /179.0°E Music Time

0230 GMT

I11 9 /179.0°E Open File

0240 GMT

I11 14 /179.0°E Families of the World

0245 GMT

B02 1 /110.0°E Today's Program Guide: Weather Forecast (Including maritime).

0300 GMT

B02 1 /110.0°E News
I11 14 /179.0°E For the Juniors
I11 22 /179.0°E CNN Headline News
I11 9 /179.0°E Ensemble

0320 GMT

B02 1 /110.0°E Variety Show
I11 14 /179.0°E The Media

0325 GMT

I11 9 /179.0°E World Cultures and Youth

0330 GMT

I11 22 /179.0°E NBC Tonight Show starring Johnny Carson

0340 GMT

I11 14 /179.0°E Lower Primary Social Studies

0345 GMT

B02 1 /110.0°E Drama

0400 GMT

I11 14 /179.0°E A New World

PACIFIC OCEAN REGION

All times are Greenwich Meridian time

0405 GMT

B02 1 /110.0°E Drama

0425 GMT

B02 1 /110.0°E Knato-Koshinets Local Network

0430 GMT

I11 14 /179.0°E Open File
I11 22 /179.0°E CNN Sports Tonite

0445 GMT

B02 1 /110.0°E Window of News

0500 GMT

B02 1 /110.0°E Celebrity Interview
I11 14 /179.0°E Ensemble
I11 22 /179.0°E ABC Nightline
I11 9 /179.0°E Sesame Street: Children's programming.

0520 GMT

B02 1 /110.0°E Musical Variety (In stereo).

0525 GMT

I11 14 /179.0°E World Cultures and Youth

0530 GMT

I11 22 /179.0°E CNN Headline News

0550 GMT

B02 1 /110.0°E TV Calisthenics

0555 GMT

I11 9 /179.0°E Captain Cookaburra's Australia

0600 GMT

I11 22 /179.0°E AFRTS Sign Off or CNN Headline News
I11 9 /179.0°E Play School: Children's programming.

0605 GMT

B02 1 /110.0°E TV's Cooking (Repeat).

0630 GMT

I11 9 /179.0°E Playaway: "G".

0700 GMT

I11 14 /179.0°E Sesame Street: Children's programming.
I11 9 /179.0°E Out There: Program designed to inform school leavers of the skills required in the transition to the outside world.

0705 GMT

B02 1 /110.0°E Your Health Guide (Repeat).

0720 GMT

B02 1 /110.0°E Music Album (In stereo).

0725 GMT

I11 9 /179.0°E To Be Announced

0730 GMT

B02 1 /110.0°E For the Aged
I11 9 /179.0°E Battle of the Planets: "G".

0755 GMT

I11 14 /179.0°E Captain Cookaburra's Australia

I11 9 /179.0°E Come and Get It

0800 GMT

I11 14 /179.0°E Play School: Children's programming.

0805 GMT

B02 1 /110.0°E TV Kindergarten (Repeat).
I11 9 /179.0°E Inspector Gadget: "G".

0830 GMT

I11 14 /179.0°E Playaway: "G".
I11 9 /179.0°E ABC National: News.

0845 GMT

B02 1 /110.0°E Cartoons

0900 GMT

B02 1 /110.0°E Puppet Play: Children's show.
I11 14 /179.0°E Out There: Program designed to inform school leavers of the skills required in the transition to the outside world.

0905 GMT

P02 9 /77.0°E Program Summary
P03 10 /108.0°E Program Summary

0910 GMT

B02 1 /110.0°E Children's Quiz Show

0915 GMT

P02 9 /77.0°E Kigiayatan Belia
P03 10 /108.0°E Duniya Pendedikan

0925 GMT

I11 14 /179.0°E To Be Announced

0930 GMT

B02 1 /110.0°E News Center: Domestic and local news.
I11 14 /179.0°E Battle of the Planets: "G".
I11 9 /179.0°E Flight Into Hell

0935 GMT

P02 9 /77.0°E Waktu Berbuka Puaka Dan Imsak
P03 10 /108.0°E Puspa Warna

0950 GMT

P02 9 /77.0°E Bimbingan Agama

0955 GMT

I11 14 /179.0°E Come and Get It

1000 GMT

B02 1 /110.0°E National and International News: Bilingual news in Japanese and English.
P02 5 /77.0°E Flor de Luna: Dramatic series.
P02 9 /77.0°E News

1005 GMT

I11 14 /179.0°E Inspector Gadget: "G".

1015 GMT

P02 9 /77.0°E Egyptian Drama Series

1025 GMT

I11 9 /179.0°E Annika: "AO".

1030 GMT

B02 1 /110.0°E Evening Special (Occasional stereo).

I11 14 /179.0°E ABC National: News.

1045 GMT

P03 10 /108.0°E Documentary

1100 GMT

B02 1 /110.0°E NHK Special Feature
I17 20 /57.0°E Royal Anthem-Holy Koran: Religious talk.
P02 5 /77.0°E Newswatch: Evening edition in English.
P02 9 /77.0°E Religious Program
P03 10 /108.0°E News: Tamil.

1125 GMT

I17 20 /57.0°E Cartoon: Children's programming.

1130 GMT

I11 14 /179.0°E Flight Into Hell
I11 9 /179.0°E The Carleton-Walsh Report: Mid-evening news and current affairs program.
P02 5 /77.0°E NOVELA-Julian Talisman: Novella
P02 9 /77.0°E WKRP In Cincinnati: US Comedy.
P03 10 /108.0°E Good Times: US Comedy.

1150 GMT

B02 1 /110.0°E Local News
I11 9 /179.0°E The Life and Adventures of Nicholas Nickleby: The Royal Shakespeare Company presents Charles Dickens' tale.

1200 GMT

B02 1 /110.0°E News Center 9
I17 20 /57.0°E Educational Program
P02 9 /77.0°E National News
P03 10 /108.0°E National News

1225 GMT

I11 14 /179.0°E Annika: "AO".
P02 9 /77.0°E Local News
P03 10 /108.0°E Evening News Summary

1230 GMT

I17 20 /57.0°E Children's Program: English.
P02 5 /77.0°E The Incredible Hulk: Adventure series.
P02 9 /77.0°E Evening News Summary

1235 GMT

P02 9 /77.0°E Azan Isyak: Spirit of Asia-Documentary.
P03 10 /108.0°E Keluarga

1240 GMT

B02 1 /110.0°E NOVELA-Minato-Eki: Soap opera

1245 GMT

P02 9 /77.0°E US Mini Series

1300 GMT

B02 1 /110.0°E Today's News and Sports
I11 22 /179.0°E Sign On
I17 20 /57.0°E Open Seasame: Children's program in Arabic.
P03 10 /108.0°E News: Mandarin.

1320 GMT

P02 9 /77.0°E Ehwal Semasa
P03 10 /108.0°E SPORTS-Sports Special

1330 GMT

I11 14 /179.0°E The Carleton-Walsh Report: Mid-evening news and current affairs program.
I11 22 /179.0°E ABC World News AM
P02 5 /77.0°E Family Feud: US Game show.

1340 GMT

I17 20 /57.0°E Arabic Serial

1345 GMT

I11 9 /179.0°E Close

1350 GMT

I11 14 /179.0°E The Life and Adventures of Nicholas Nickleby: The Royal Shakespeare Company presents Charles Dickens' tale.

1400 GMT

I11 22 /179.0°E NBC Today Show
P02 9 /77.0°E Sukan Hariyan

1420 GMT

P02 9 /77.0°E The Fall Guy: US series.

1430 GMT

B02 1 /110.0°E Today's Focus
I17 20 /57.0°E Cultural Program
P02 5 /77.0°E Card Shark: US Quiz show

1435 GMT

B02 1 /110.0°E Personality of the Week: Hometown Network.

1445 GMT

P03 10 /108.0°E Hari Ini Dalam Sejarah: Today in History.

1450 GMT

P03 10 /108.0°E Evening at the Pops: US Musical show.

1500 GMT

I17 20 /57.0°E News: Local.
P02 5 /77.0°E Beat the Clock: US Game show.
P02 9 /77.0°E Teachers Only: US Comedy.

1520 GMT

I17 20 /57.0°E Local Program

1530 GMT

P02 5 /77.0°E Newswatch: Final edition.

1545 GMT

I11 14 /179.0°E Close

1550 GMT

I17 20 /57.0°E Cultural Program

1600 GMT

I11 22 /179.0°E CNN Headline News
P02 9 /77.0°E Sign Off
P03 10 /108.0°E Sign Off

1615 GMT

I17 20 /57.0°E English Serial

1630 GMT

I11 22 /179.0°E SPORTS-ESPN Sportscenter

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1700 GMT

I11 22 /179.0°E CNN Take Two: Hour 2.
I17 20 /57.0°E News: Arabic.

1730 GMT

I17 20 /57.0°E Arabic Serial

1800 GMT

I11 22 /179.0°E CNN Headline News

1830 GMT

I11 22 /179.0°E CNN Continues
I17 20 /57.0°E News: English.

1900 GMT

I17 20 /57.0°E Program Review-Local Program

1930 GMT

I11 22 /179.0°E SPORTS-CNN Continues

2000 GMT

I13 24 /174.0°E UPITN News from Washington DC to NHK Japan

2030 GMT

I11 22 /179.0°E CNN Headline News
I16 24 /60.0°E Visnews London for Asia and Pacific
I17 20 /57.0°E News in Brief-Holy Koran

2045 GMT

I17 20 /57.0°E Royal Anthem

2100 GMT

B02 1 /110.0°E Sign On
I11 22 /179.0°E CNN Take Two: Hour 1.
I13 24 /174.0°E UPITN News from NY to Pacific

2115 GMT

B02 1 /110.0°E Farmer's Hour

2130 GMT

I16 24 /60.0°E Visnews London

2145 GMT

B02 1 /110.0°E NHK News Wide

2200 GMT

I11 22 /179.0°E AFRTS Advisory Block: Schedules, advisories and color bars.
I11 9 /179.0°E Sesame Street: Children's programming.

2230 GMT

I11 22 /179.0°E ABC World News Tonight

2300 GMT

I11 22 /179.0°E NBC Nightly News
I11 9 /179.0°E Mr. Squiggles and Friends

2315 GMT

B02 1 /110.0°E Morning Drama

2330 GMT

B02 1 /110.0°E Morning Journal
I11 22 /179.0°E CBS Evening News
I11 9 /179.0°E Play School: Children's programming.
P02 5 /77.0°E Newswatch: Filipino edition.

WEDNESDAY

0000 GMT

I11 14 /179.0°E Sesame Street: Children's programming.
I11 22 /179.0°E CNN Continues
I11 9 /179.0°E Watch

0015 GMT

I11 9 /179.0°E Look at a Book

0020 GMT

I11 9 /179.0°E Lifestyle

0030 GMT

B02 1 /110.0°E TV Kindergarten

0040 GMT

I11 9 /179.0°E The Media

0100 GMT

I11 22 /170.0°E CBS News West-Coast Edition

I11 14 /179.0°E Mr. Squiggles and Friends
I11 9 /179.0°E Hunter

0105 GMT

B02 1 /110.0°E Today's Cooking

0120 GMT

I11 9 /179.0°E Flip, Slide, Turn

0130 GMT

B02 1 /110.0°E Woman's Encyclopedia
I11 14 /179.0°E Play School: Children's programming.
I11 22 /179.0°E MacNeil, Lehrer Report

0140 GMT

I11 9 /179.0°E Writing

0200 GMT

B02 16 /110.0°E Your Health Guide
I11 14 /179.0°E Watch
I11 9 /179.0°E Out There

0215 GMT

B02 1 /110.0°E Mother's Study Room
I11 14 /179.0°E Look at a Book

0220 GMT

I11 14 /179.0°E Lifestyle

0230 GMT

I11 22 /179.0°E CNN Continues
I11 9 /179.0°E Four Corners

0240 GMT

I11 14 /179.0°E The Media

0245 GMT

B02 1 /110.0°E Today's Program Guide: Weather Forecast (Including maritime).

0300 GMT

B02 1 /110.0°E News
I11 14 /179.0°E Hunter

0320 GMT

B02 1 /110.0°E Variety Show
I11 14 /179.0°E Flip, Slide, Turn

0325 GMT

I11 9 /179.0°E The Whys and Wherefores

0330 GMT

I11 22 /179.0°E NBC Tonight Show starring Johnny Carson

0335 GMT

I11 9 /179.0°E Behind the News

0340 GMT

I11 14 /179.0°E Writing

0345 GMT

B02 1 /110.0°E Drama

0400 GMT

I11 14 /179.0°E Out There

0405 GMT

B02 1 /110.0°E Drama

0425 GMT

B02 1 /110.0°E Knato-Koshinets Local Network

0430 GMT

I11 14 /179.0°E Four Corners
I11 22 /179.0°E CNN Sports Tonite

0445 GMT

B02 1 /110.0°E Window of News

0500 GMT

B02 1 /110.0°E Celebrity Interview
I11 22 /179.0°E ABC Nightline
I11 9 /179.0°E Sesame Street: Children's programming.

0520 GMT

B02 1 /110.0°E Musical Variety (In stereo).

0525 GMT

I11 14 /179.0°E The Whys and Wherefores

0530 GMT

I11 22 /179.0°E CNN Headline News

0535 GMT

I11 14 /179.0°E Behind the News

0550 GMT

B02 1 /110.0°E TV Calisthenics

0555 GMT

I11 9 /179.0°E Captain Cookaburra's Australia

0600 GMT

I11 22 /179.0°E AFRTS Sign Off: With advisories if necessary, followed by CNN commerical feed.
I11 9 /179.0°E Play School: Children's programming.

0605 GMT

B02 1 /110.0°E TV's Cooking (Repeat).

0630 GMT

I11 9 /179.0°E Playaway: "G".

0700 GMT

I11 14 /179.0°E Sesame Street: Children's programming.
I11 9 /179.0°E Earth Watch

0705 GMT

B02 1 /110.0°E Your Health Guide (Repeat).

0720 GMT

B02 1 /110.0°E Music Album (In stereo).

0725 GMT

I11 9 /179.0°E To Be Announced

0730 GMT

B02 1 /110.0°E For the Aged
I11 9 /179.0°E Battle of the Planets: "G".

0755 GMT

I11 14 /179.0°E Captain Cookaburra's Australia
I11 9 /179.0°E Come and Get It

0800 GMT

I11 14 /179.0°E Play School: Children's programming.

0805 GMT

B02 1 /110.0°E TV Kindergarten (Repeat).
I11 9 /179.0°E Inspector Gadget: "G".

0830 GMT

I11 14 /179.0°E Playaway: "G".

I11 9 /179.0°E ABC National: News.

0845 GMT

B02 1 /110.0°E Cartoons

0900 GMT

B02 1 /110.0°E Puppet Play: Children's show.
I11 14 /179.0°E Earth Watch

0905 GMT

P02 9 /77.0°E Program Summary
P03 10 /108.0°E Program Summary

0910 GMT

B02 1 /110.0°E Children's Quiz Show

0915 GMT

P02 9 /77.0°E Kigiayatan Belia
P03 10 /108.0°E Duniya Pendedikan

0925 GMT

I11 14 /179.0°E To Be Announced

0930 GMT

B02 1 /110.0°E News Center: Domestic and local news.
I11 14 /179.0°E Battle of the Planets: "G".
I11 9 /179.0°E The Investigators

0935 GMT

P02 9 /77.0°E Waktu Berbuka Puaka Dan Imsak
P03 10 /108.0°E Puspa Warna

0950 GMT

P02 9 /77.0°E Bimbingan Agama

0955 GMT

I11 14 /179.0°E Come and Get It

1000 GMT

B02 1 /110.0°E National and International News: Bilingual news in Japanese and English.
I11 9 /179.0°E Open File
P02 5 /77.0°E Flor de Luna: Dramatic series.

P02 9 /77.0°E News
P03 10 /108.0°E That's Incredible: US show.

1005 GMT

I11 14 /179.0°E Inspector Gadget: "G".

1015 GMT

P02 9 /77.0°E Egyptian Drama Series

1030 GMT

B02 1 /110.0°E Evening Special (Occasional stereo).
I11 14 /179.0°E ABC National: News.

1035 GMT

I11 9 /179.0°E Shelly: "AO".

1045 GMT

P03 10 /108.0°E Documentary

1100 GMT

B02 1 /110.0°E NHK Special Feature
I11 9 /179.0°E Countrywide: Rural affairs.
I17 20 /57.0°E Royal Anthem-Holy Koran: Religious talk.
P02 5 /77.0°E Newswatch: Evening edition in English.

P02 9 /77.0°E Religious Program
P03 10 /108.0°E News: Tamil.

1130 GMT

I11 14 /179.0°E The Investigators
I11 9 /179.0°E The Carleton-Walsh Report: Mid-evening news and current affairs program.
P02 5 /77.0°E Wonder Woman: Adventure series.
P02 9 /77.0°E Facts of Life: US Comedy.
P03 10 /108.0°E Documentary

1150 GMT

B02 1 /110.0°E Local News
I17 20 /57.0°E Cartoon: Children's programming.

1200 GMT

B02 1 /110.0°E News Center 9
I11 14 /179.0°E Open File
P02 9 /77.0°E National News
P03 10 /108.0°E National News

1220 GMT

I11 9 /179.0°E The Life and Adventures of Nicholas Nickleby: Charles Dicken's tale.

1225 GMT

P02 9 /77.0°E Hari Ini Dalam Sejarah: Today in History.
P03 10 /108.0°E Evening News Summary

1230 GMT

I17 20 /57.0°E Educational Program
P02 5 /77.0°E MOVIE-Mid Week Special: Movie.
P02 9 /77.0°E Evening News Summary

1235 GMT

I11 14 /179.0°E Shelly: "AO".
P02 9 /77.0°E Wasyid
P03 10 /108.0°E MOVIE-Asian Movie: Indian, Chinese, etc.

1240 GMT

B02 1 /110.0°E NOVELA-Minato-Eki: Soap opera

1245 GMT

P02 9 /77.0°E Bingkisan Irama

1300 GMT

B02 1 /110.0°E Today's News and Sports
I11 14 /179.0°E Countrywide: Rural affairs.
I11 22 /179.0°E Sign On
P03 10 /108.0°E News: Mandarin.

1320 GMT

P02 9 /77.0°E Focus
P03 10 /108.0°E MOVIE-Asian Movie: Continued.

1330 GMT

I11 14 /179.0°E The Carleton-Walsh Report: Mid-evening news and current affairs program.
I11 22 /179.0°E ABC World News AM

1335 GMT

I17 20 /57.0°E Prayers

1340 GMT

I17 20 /57.0°E Arabic Serial

1355 GMT

I11 9 /179.0°E Close

1400 GMT

I11 22 /179.0°E NBC Today Show
P02 9 /77.0°E MOVIE-Movie Time: One half film shown each week.

1420 GMT

I11 14 /179.0°E The Life and Adventures of Nicholas Nickleby: Charles Dicken's tale.

1430 GMT

B02 1 /110.0°E Today's Focus
I17 20 /57.0°E Cultural Program
P02 5 /77.0°E Tell The People: Investigative news program.
P03 10 /108.0°E News: English.

1435 GMT

B02 1 /110.0°E Personality of the Week: Hometown Network.

1500 GMT

I17 20 /57.0°E News: Local.
P02 9 /77.0°E Private Benjamin:

1520 GMT

I17 20 /57.0°E SPORTS-Sports Magazine

1530 GMT

P02 5 /77.0°E Newswatch: Final edition.

1555 GMT

I11 14 /179.0°E Close

1600 GMT

I11 22 /179.0°E CNN Headline News
I17 20 /57.0°E Cultural Program
P02 9 /77.0°E Sign Off
P03 10 /108.0°E Sign Off

1630 GMT

I11 22 /179.0°E ESPN Sports-center or CNN Headline News

1700 GMT

I11 22 /179.0°E CNN Take Two: Hour 2.
I17 20 /57.0°E News: Arabic.

1725 GMT

I17 20 /57.0°E Arabic Serial

1800 GMT

I11 22 /179.0°E CNN Headline News

1830 GMT

I11 22 /179.0°E SPORTS-American Interests
I17 20 /57.0°E English News-Program Review

1900 GMT

I11 22 /179.0°E McLaughlin Group
I17 20 /57.0°E Best Sellers

1930 GMT

I11 22 /179.0°E Entertainment This Week: Entertainment news program from Hollywood, California.

2000 GMT

I13 24 /174.0°E UPITN News from Washington DC to NHK Japan

2030 GMT

I11 22 /179.0°E CNN Headline News

I16 24 /60.0°E Visnews London for Asia and Pacific
I17 20 /57.0°E News in Brief-Holy Koran

2045 GMT

I17 20 /57.0°E Royal Anthem

2100 GMT

B02 1 /110.0°E Sign On
I11 22 /179.0°E CNN Take Two: Hour 1.
I13 24 /174.0°E UPITN News from NY to Pacific

2115 GMT

B02 1 /110.0°E Farmer's Hour

2130 GMT

I16 24 /60.0°E Visnews London

2145 GMT

B02 1 /110.0°E NHK News Wide

2200 GMT

I11 22 /179.0°E AFRTS Advisory Block: Schedules, advisories and color bars.
I11 9 /179.0°E Sesame Street: Children's programming.

2230 GMT

I11 22 /179.0°E ABC World News Tonight

2300 GMT

I11 22 /179.0°E NBC Nightly News
I11 9 /179.0°E Mr. Squiggle and Frineds

2315 GMT

B02 1 /110.0°E Morning Drama

2330 GMT

B02 1 /110.0°E Morning Journal
I11 22 /179.0°E CBS Evening News
I11 9 /179.0°E Play School
P02 5 /77.0°E Newswatch: Filipino edition.

THURSDAY

0000 GMT

I11 14 /179.0°E Sesame Street: Children's programming.
I11 22 /179.0°E CNN Continues
I11 9 /179.0°E Trapp, Winkle and Box

0020 GMT

I11 9 /179.0°E The Magic Bag

0030 GMT

B02 1 /110.0°E TV Kindergarten

0040 GMT

I11 9 /179.0°E Northern Australian Documentaries

0100 GMT

I11 14 /179.0°E Mr. Squiggle and Frineds
I11 22 /179.0°E CBS News West-Coast Edition
I11 9 /179.0°E Watch

0105 GMT

B02 1 /110.0°E Today's Cooking

0120 GMT

I11 9 /179.0°E Lower Primary Science

0130 GMT

B02 1 /110.0°E Woman's Encyclopedia
I11 14 /179.0°E Play School
I11 22 /179.0°E MacNeil, Lehrer Report

0140 GMT

I11 9 /179.0°E A Good Read

0200 GMT

B02 1 /110.0°E Your Health Guide
I11 14 /179.0°E Trapp, Winkle and Box
I11 9 /179.0°E Making the Most of the Micro

0215 GMT

B02 1 /110.0°E Mother's Study Room

0220 GMT

I11 14 /179.0°E The Magic Bag

0230 GMT

I11 22 /179.0°E CNN Continues
I11 9 /179.0°E Countrywide

0240 GMT

I11 14 /179.0°E Northern Australian Documentaries

0245 GMT

B02 1 /110.0°E Today's Program Guide: Weather Forecast (Including maritime).

0300 GMT

B02 1 /110.0°E News
I11 14 /179.0°E Watch
I11 9 /179.0°E Words Fail Me

PACIFIC OCEAN REGION

All times are Greenwich Meridian time

0320 GMT

B02 1 /110.0°E Variety Show
I11 14 /179.0°E Lower Primary Science

0325 GMT

I11 9 /179.0°E Puppets

0330 GMT

I11 22 /179.0°E NBC Tonight Show starring Johnny Carson

0340 GMT

I11 14 /179.0°E A Good Read

0345 GMT

B02 1 /110.0°E Drama

0400 GMT

I11 14 /179.0°E Making the Most of the Micro

0405 GMT

B02 1 /110.0°E Drama

0425 GMT

B02 1 /110.0°E Knato-Koshinets Local Network

0430 GMT

I11 14 /179.0°E Countrywide
I11 22 /179.0°E CNN Sports Tonite

0445 GMT

B02 1 /110.0°E Window of News

0500 GMT

B02 1 /110.0°E Celebrity Interview
I11 14 /179.0°E Words Fail Me
I11 22 /179.0°E ABC Nightline
I11 9 /179.0°E Sesame Street: Children's programming.

0520 GMT

B02 1 /110.0°E Musical Variety (In stereo).

0525 GMT

I11 14 /179.0°E Puppets

0530 GMT

I11 22 /179.0°E CNN Headline News

0550 GMT

B02 1 /110.0°E TV Calisthenics

0555 GMT

I11 9 /179.0°E Captain Cookaburra's Australia

0600 GMT

I11 22 /179.0°E AFRTS Sign Off: With advisories if necessary, followed by CNN commercial feed.
I11 9 /179.0°E Play School: Children's programming.

0605 GMT

B02 1 /110.0°E TV's Cooking (Repeat).

0630 GMT

I11 9 /179.0°E Playaway: "G".

0700 GMT

I11 14 /179.0°E Sesame Street: Children's programming.
I11 9 /179.0°E Antenna: Pop music clips, comedy, film consumer reviews and important issues for young people.

P02 9 /77.0°E Program Summary

0705 GMT

B02 1 /110.0°E Your Health Guide (Repeat).

0720 GMT

B02 1 /110.0°E Music Album (In stereo).
P02 9 /77.0°E Chuck Connors Western Theater: US series.

0725 GMT

I11 9 /179.0°E To Be Announced

0730 GMT

B02 1 /110.0°E For the Aged
I11 9 /179.0°E Battle of the Planets: "G".

0755 GMT

I11 14 /179.0°E Captain Cookaburra's Australia
I11 9 /179.0°E Come and Get It

0800 GMT

I11 14 /179.0°E Play School: Children's programming.

0805 GMT

B02 1 /110.0°E TV Kindergarten (Repeat).
I11 9 /179.0°E Inspector Gadget: "G".

0810 GMT

P02 9 /77.0°E Drame Minggu Ini

0830 GMT

I11 14 /179.0°E Playaway: "G".
I11 9 /179.0°E ABC National: News.

0845 GMT

B02 1 /110.0°E Cartoons

0900 GMT

B02 1 /110.0°E Puppet Play: Children's show.
I11 14 /179.0°E Antenna: Pop music clips, comedy, film consumer reviews and important issues for young people.

0905 GMT

P03 10 /108.0°E Program Summary

0910 GMT

B02 1 /110.0°E Children's Quiz Show

0915 GMT

P02 9 /77.0°E Kebun Kita
P03 10 /108.0°E Kesuma

0925 GMT

I11 14 /179.0°E To Be Announced

0930 GMT

B02 1 /110.0°E News Center: Domestic and local news.
I11 14 /179.0°E Battle of the Planets: "G".
I11 9 /179.0°E Palace of Dreams

0935 GMT

P02 9 /77.0°E Hari Ini Dalam Sejarah: Today In History.
P03 10 /108.0°E SPORTS-ABC Wide World of Sports

0950 GMT

P02 9 /77.0°E Bimbingan Agama

0955 GMT

I11 14 /179.0°E Come and Get It

1000 GMT

B02 1 /110.0°E National and International News: Bilingual news in Japanese and English.
P02 5 /77.0°E Flor de Luna: Dramatic series.
P02 9 /77.0°E News

1005 GMT

I11 14 /179.0°E Inspector Gadget: "G".

1015 GMT

P02 9 /77.0°E Egyptian Drama Series

1025 GMT

I11 9 /179.0°E Pressure Point: Interviews concerning major current affairs and news stories of the week.

1030 GMT

B02 1 /110.0°E Evening Special (Occasional stereo).
I11 14 /179.0°E ABC National: News.

1045 GMT

P03 10 /108.0°E Documentary

1055 GMT

I11 9 /179.0°E The Genius of Monet

1100 GMT

B02 1 /110.0°E NHK Special Feature
I17 20 /57.0°E Royal Anthem-Holy Koran: Religious talk.
P02 5 /77.0°E Newswatch: Evening edition in English.

P03 10 /108.0°E News: Tamil.

1125 GMT

I17 20 /57.0°E Cartoon: Children's programming.

1130 GMT

I11 14 /179.0°E Palace of Dreams
I11 9 /179.0°E The Carleton-Walsh Report: Mid-evening news and current affairs program.
P02 5 /77.0°E Steer
P02 9 /77.0°E The Jeffersons: US Comedy.
P03 10 /108.0°E Living Tomorrow Documentary Series

1150 GMT

B02 1 /110.0°E Local News

1200 GMT

B02 1 /110.0°E News Center 9
I11 9 /179.0°E The Life and Adventures of Nicholas Nickleby: Charles Dicken's tale.
I17 20 /57.0°E Educational Program
P02 9 /77.0°E National News
P03 10 /108.0°E National News

1225 GMT

I11 14 /179.0°E Pressure Point: Interviews concerning major current affairs and news stories of the week.

P02 9 /77.0°E Local News
P03 10 /108.0°E Evening Program Summary

1230 GMT

I17 20 /57.0°E Indian Film
P02 5 /77.0°E Champoy: Comedy.
P02 9 /77.0°E Evening Program Summary
P03 10 /108.0°E Lembaran Minggu

1235 GMT

P02 9 /77.0°E Azan Isyak: Spirit of Asia-Documentary.

1240 GMT

B02 1 /110.0°E NOVELA-Minato-Eki: Soap opera

1245 GMT

P02 9 /77.0°E Sekali Peristiwa

1255 GMT

I11 14 /179.0°E The Genius of Monet

1300 GMT

B02 1 /110.0°E Today's News and Sports
I11 22 /179.0°E Sign On
P02 9 /77.0°E Bangswahan
P03 10 /108.0°E News: Mandarin.

1320 GMT

P02 9 /77.0°E Hari Ini Dalam Sejarah: Today in History.
P03 10 /108.0°E SPORTS-Big League Soccer

1330 GMT

I11 14 /179.0°E The Carleton-Walsh Report: Mid-evening news and current affairs program.
I11 22 /179.0°E ABC World News AM
P02 5 /77.0°E Simon and Simon: US Detective series.

1335 GMT

I17 20 /57.0°E Prayers

1355 GMT

I11 9 /179.0°E Close

1400 GMT

I11 14 /179.0°E The Life and Adventures of Nicholas Nickleby: Charles Dicken's tale.
I11 22 /179.0°E NBC Today Show
P02 9 /77.0°E Taxi: US Comedy.

1420 GMT

P03 10 /108.0°E News: English.

1430 GMT

B02 1 /110.0°E Today's Focus
I17 20 /57.0°E Cultural Program
P02 5 /77.0°E Newswatch: Final edition.

1435 GMT

B02 1 /110.0°E Personality of the Week: Hometown Network.

1445 GMT

P03 10 /108.0°E MOVIE-Feature Film

1455 GMT

P03 10 /108.0°E Devlin Connection: US series.

All times are Greenwich Meridian time

1500 GMT

I17 20 /57.0°E **News:** Local.
P02 5 /77.0°E **MOVIE-Relax and Watch a Movie**

1520 GMT

I17 20 /57.0°E **Local Program**

1555 GMT

I11 14 /179.0°E **Close**

1600 GMT

I11 22 /179.0°E **CNN Headline News**
I17 20 /57.0°E **English Serial**

1630 GMT

I11 22 /179.0°E **SPORTS-ESPN Sportscenter**

1700 GMT

I11 22 /179.0°E **CNN Take Two:** Hour 2.
I17 20 /57.0°E **News:** Arabic.

1800 GMT

I11 22 /179.0°E **CNN Headline News**

1830 GMT

I11 22 /179.0°E **CNN Continues or Road to Los Angeles**
I17 20 /57.0°E **English News-Program Review**

1900 GMT

I11 22 /179.0°E **CNN Continues**

1930 GMT

I11 22 /179.0°E **Solid Gold:** American pop music show counts down the top ten tunes of the week.

2000 GMT

I13 24 /174.0°E **UPITN News from Washington DC to NHK Japan**

2030 GMT

I11 22 /179.0°E **CNN Headline News**
I16 24 /60.0°E **Visnews London for Asia and Pacific**
I17 20 /57.0°E **News in Brief-Holy Koran**

2045 GMT

I17 20 /57.0°E **Royal Anthem**

2100 GMT

B02 1 /110.0°E **Sign On**
I11 22 /179.0°E **CNN Take Two:** Hour 1.
I13 24 /174.0°E **UPITN News from NY to Pacific**

2115 GMT

B02 1 /110.0°E **Farmer's Hour**

2130 GMT

I16 24 /60.0°E **Visnews London**

2145 GMT

B02 1 /110.0°E **NHK News Wide**

2200 GMT

I11 22 /179.0°E **AFRTS Advisory Block:** Schedules, advisories and color bars.
I11 9 /179.0°E **Sesame Street:** Children's programming.

2230 GMT

I11 22 /179.0°E **ABC World News Tonight**

2300 GMT

I11 22 /179.0°E **NBC Nightly News**
I11 9 /179.0°E **Mr. Squiggle and Frineds**

2315 GMT

B02 1 /110.0°E **Morning Drama**

2330 GMT

B02 1 /110.0°E **Morning Journal**
I11 22 /179.0°E **CBS Evening News**
I11 9 /179.0°E **Play School**
P02 5 /77.0°E **Newswatch:** Filipino edition.

FRIDAY

0000 GMT

I11 14 /179.0°E **Sesame Street:** Children's programming.
I11 22 /179.0°E **CNN Continues**
I11 9 /179.0°E **Words and Pictures**

0015 GMT

I11 9 /179.0°E **Look at a Book**

0020 GMT

I11 9 /179.0°E **Infinity Ltd.**

0030 GMT

B02 1 /110.0°E **TV Kindergarten**

0040 GMT

I11 9 /179.0°E **Tout Compris**

0055 GMT

I11 9 /179.0°E **Friends of My Friends**

0100 GMT

I11 14 /179.0°E **Mr. Squiggle and Friends**
I11 22 /179.0°E **CBS News West-Coast Edition**

0105 GMT

B02 1 /110.0°E **Today's Cooking**

0120 GMT

I11 9 /179.0°E **Trapp, Winkel and Box**

0130 GMT

B02 1 /110.0°E **Woman's Encyclopedia**
I11 14 /179.0°E **Play School**
I11 22 /179.0°E **MacNeil, Lehrer Report**

0140 GMT

I11 9 /179.0°E **Families of the World**

0200 GMT

B02 1 /110.0°E **Your Health Guide**
I11 14 /179.0°E **Words and Pictures**
I11 9 /179.0°E **The Explorers**

0215 GMT

B02 1 /110.0°E **Mother's Study Room**
I11 14 /179.0°E **Look at a Book**

0220 GMT

I11 14 /179.0°E **Infinity Ltd.**

0230 GMT

I11 22 /179.0°E **CNN Continues**
I11 9 /179.0°E **Macbeth:** "G".

0240 GMT

I11 14 /179.0°E **Tout Compris**

0245 GMT

B02 1 /110.0°E **Today's Program Guide:** Weather Forecast (Including maritime).

0255 GMT

I11 14 /179.0°E **Friends of My Friends**

0300 GMT

B02 1 /110.0°E **News**
I11 9 /179.0°E **Buongiorno Italia**

0320 GMT

B02 1 /110.0°E **Variety Show**
I11 14 /179.0°E **Trapp, Winkel and Box**

0325 GMT

I11 9 /179.0°E **Insight**

0330 GMT

I11 22 /179.0°E **NBC Tonight Show starring Johnny Carson**

0340 GMT

I11 14 /179.0°E **Families of the World**

0345 GMT

B02 1 /110.0°E **Drama**

0400 GMT

I11 14 /179.0°E **The Explorers**

0405 GMT

B02 1 /110.0°E **Drama**

0425 GMT

B02 1 /110.0°E **Knato-Koshinets Local Network**

0430 GMT

I11 14 /179.0°E **Macbeth:** "G".
I11 22 /179.0°E **CNN Sports Tonite**

0445 GMT

B02 1 /110.0°E **Window of News**

0500 GMT

B02 1 /110.0°E **Celebrity Interview**
I11 14 /179.0°E **Buongiorno Italia**
I11 22 /179.0°E **ABC Nightline**
I11 9 /179.0°E **Sesame Street:** Children's programming.

0520 GMT

B02 1 /110.0°E **Musical Variety (In stereo).**

0525 GMT

I11 14 /179.0°E **Insight**

0530 GMT

I11 22 /179.0°E **CNN Headline News**

0550 GMT

B02 1 /110.0°E **TV Calisthenics**

0555 GMT

I11 9 /179.0°E **Captain Cookaburra's Australia**

0600 GMT

I11 22 /179.0°E **AFRTS Sign Off:** With advisories if necessary, followed by CNN commercial feed.
I11 9 /179.0°E **Play School**
I17 20 /57.0°E **Royal Anthem**

0605 GMT

B02 1 /110.0°E **TV's Cooking (Repeat).**
I17 20 /57.0°E **Holy Koran:** Religious talk.

0630 GMT

I11 9 /179.0°E **Playaway:** "G".
I17 20 /57.0°E **Cartoon:** Children's programming.

0655 GMT

I11 9 /179.0°E **Australian Wildlife Club Bulletin**

0700 GMT

I11 14 /179.0°E **Sesame Street:** Children's programming.
I11 9 /179.0°E **Golden Pennies**
I17 20 /57.0°E **World of Children**
P02 5 /77.0°E **Program Summary**

0705 GMT

B02 1 /110.0°E **Your Health Guide (Repeat).**

0720 GMT

B02 1 /110.0°E **Music Album (In stereo).**
P02 5 /77.0°E **Woody Woodpecker Show:** US Cartoon.

0725 GMT

I11 9 /179.0°E **To Be Announced**

0730 GMT

B02 1 /110.0°E **For the Aged**
I11 9 /179.0°E **Battle of the Planets:** "G"

0745 GMT

I17 20 /57.0°E **Health Program**
P02 5 /77.0°E **Andy Griffith Show:** US Comedy.

0755 GMT

I11 14 /179.0°E **Captain Cookaburra's Australia**
I11 9 /179.0°E **Come and Get It**

0800 GMT

I11 14 /179.0°E **Play School**
I11 9 /179.0°E **SPORTS-World Cup Athletics Report**
I17 20 /57.0°E **Prayers**

0805 GMT

B02 1 /110.0°E **TV Kindergarten (Repeat).**
I11 9 /179.0°E **Inspector Gadget:** "G".

0810 GMT

P02 5 /77.0°E **Voyagers!:** US Adventure series.

0830 GMT

I11 14 /179.0°E **Playaway:** "G".
I11 9 /179.0°E **ABC National:** News.

0845 GMT

B02 1 /110.0°E **Cartoons**
I17 20 /57.0°E **Religious Program**

PACIFIC OCEAN REGION

All times are Greenwich Meridian time

0855 GMT

I11 14 /179.0°E Australian Wildlife Club Bulletin

0900 GMT

B02 1 /110.0°E Puppet Play: Children's show.
I11 14 /179.0°E Golden Pennies
I17 20 /57.0°E News in Brief

0905 GMT

I17 20 /57.0°E SPORTS-Football

0910 GMT

B02 1 /110.0°E Children's Quiz Show

0915 GMT

P02 9 /77.0°E Religious Program
P03 10 /108.0°E Cumi Dan Ciki

0925 GMT

I11 14 /179.0°E To Be Announced

0930 GMT

B02 1 /110.0°E News Center: Domestic and local news.
I11 14 /179.0°E Battle of the Planets: "G".
I11 9 /179.0°E One By One

0935 GMT

P02 9 /77.0°E Bimbingan Agama

0955 GMT

I11 14 /179.0°E Come and Get It

1000 GMT

B02 1 /110.0°E National and International News: Bilingual news in Japanese and English.
I11 14 /179.0°E SPORTS-World Cup Athletics Report
P02 5 /77.0°E Flor de Luna: Dramatic series.
P02 9 /77.0°E News
P03 10 /108.0°E Aluan Mesra

1005 GMT

I11 14 /179.0°E Inspector Gadget: "G".

1015 GMT

P02 9 /77.0°E Egyptian Drama Series

1025 GMT

I11 9 /179.0°E Hollywood: Documentary.

1030 GMT

B02 1 /110.0°E Evening Special (Occasional stereo).
I11 14 /179.0°E ABC National: News.

1035 GMT

I17 20 /57.0°E Children's Program: English.

1045 GMT

P03 10 /108.0°E Documentary

1100 GMT

B02 1 /110.0°E NHK Special Feature
I17 20 /57.0°E English Program
P02 5 /77.0°E Newswatch: Evening edition in English.
P02 9 /77.0°E Religious Program
P03 10 /108.0°E News: Tamil.

1120 GMT

I11 9 /179.0°E Sharon and Elsie: "PGR".

1130 GMT

I11 14 /179.0°E One By One
P02 5 /77.0°E Bagong Kampeon: Musical competition.
P02 9 /77.0°E Here's Lucy: US Comedy.
P03 10 /108.0°E Living Tomorrow Documentary Series

1145 GMT

I11 9 /179.0°E SPORTS-Jack High: Mazda International Bowls Tournament

1150 GMT

B02 1 /110.0°E Local News

1200 GMT

B02 1 /110.0°E News Center 9
I17 20 /57.0°E Arabic Film
P02 9 /77.0°E National News
P03 10 /108.0°E National News

1225 GMT

I11 14 /179.0°E Hollywood: Documentary.
P02 9 /77.0°E Local News
P03 10 /108.0°E Evening Program Summary

1230 GMT

P02 5 /77.0°E John and Marsha: Comedy.
P02 9 /77.0°E Evening Program Summary
P03 10 /108.0°E Scope

1235 GMT

P02 9 /77.0°E Azan Isyak: Spirit of Asia-Documentary.

1240 GMT

B02 1 /110.0°E NOVELA-Minato-Eki: Soap opera

1245 GMT

P02 9 /77.0°E Hari Ini Dalam Sejarah: Today in History.

1250 GMT

I11 9 /179.0°E Race to Canberra

1300 GMT

B02 1 /110.0°E Today's News and Sports
I11 22 /179.0°E Sign On
P02 9 /77.0°E MOVIE-Malay Movie Series
P03 10 /108.0°E News: Mandarin.

1320 GMT

I11 14 /179.0°E Sharon and Elsie: "PGR".
I11 9 /179.0°E Now Get Out of That: "G".
P02 9 /77.0°E Lou Grant: US Drama series.

1330 GMT

I11 22 /179.0°E ABC World News AM
P02 5 /77.0°E The $25,000 Pyramid: Game show

1345 GMT

I11 14 /179.0°E SPORTS-Jack High: Mazda International Bowls Tournament

1350 GMT

I11 9 /179.0°E SPORTS-Harness Racing
I17 20 /57.0°E Variety

1400 GMT

I11 22 /179.0°E NBC Today Show
P02 5 /77.0°E Magnum, P.I.: US Detective series.

1410 GMT

I11 9 /179.0°E Close
P03 10 /108.0°E Sukan

1430 GMT

B02 1 /110.0°E Today's Focus
P03 10 /108.0°E News: English.

1435 GMT

B02 1 /110.0°E Personality of the Week: Hometown Network.

1445 GMT

I17 20 /57.0°E Songs
P02 9 /77.0°E Hari Ini Dalam Sejarah: Today in History.

1450 GMT

I11 14 /179.0°E Race to Canberra
P02 9 /77.0°E Hart to Hart: US series.

1500 GMT

I17 20 /57.0°E Faces and Events
P02 5 /77.0°E Newswatch: Final edition.

1520 GMT

I11 14 /179.0°E Now Get Out of That: "G".

1530 GMT

P02 5 /77.0°E MOVIE-Relax and Watch a Movie

1545 GMT

P02 9 /77.0°E Late News

1550 GMT

I11 14 /179.0°E SPORTS-Harness Racing

1600 GMT

I11 22 /179.0°E CNN Headline News
I17 20 /57.0°E Arabic Serial

1610 GMT

I11 14 /179.0°E Close

1630 GMT

I11 22 /179.0°E ESPN Sportscenter or CNN Headline News

1700 GMT

I11 22 /179.0°E CNN Take Two: Hour 2.
I17 20 /57.0°E News: Arabic.

1730 GMT

I17 20 /57.0°E SPORTS-Wrestling

1830 GMT

I11 22 /179.0°E PBS Firing Line
I17 20 /57.0°E News: English.

1900 GMT

I17 20 /57.0°E Program Review

1905 GMT

I17 20 /57.0°E Arabic Program

1930 GMT

I11 22 /179.0°E To Be Announced

2000 GMT

I11 22 /179.0°E To Be Announced
I13 24 /174.0°E UPITN News from Washington DC to NHK Japan

2015 GMT

I17 20 /57.0°E News in Brief-Holy Koran

2030 GMT

I11 22 /179.0°E CNN Headline News
I16 24 /60.0°E Visnews London for Asia and Pacific

2045 GMT

I17 20 /57.0°E Royal Anthem

2100 GMT

I11 22 /179.0°E CNN Take Two: Hour 1.
I13 24 /174.0°E UPITN News from NY to Pacific

2130 GMT

I16 24 /60.0°E Visnews London

2200 GMT

I11 22 /179.0°E AFRTS Advisory Block: Schedules, advisories and color bars.

2230 GMT

I11 22 /179.0°E ABC World News Tonight

2300 GMT

I11 22 /179.0°E NBC Nightly News

2330 GMT

I11 22 /179.0°E CBS Evening News
P02 5 /77.0°E Newswatch: Filipino edition.

2335 GMT

I11 9 /179.0°E SPORTS-Jack High: Mazda International Bowls Tournament

SATURDAY

0000 GMT

I11 22 /179.0°E CNN Continues
P02 5 /77.0°E ABC Wide World of Sports

0035 GMT

I11 9 /179.0°E Buongiorno Italia: A series of programs for beginners in Italian.

0100 GMT

I11 9 /179.0°E The Media

0120 GMT

I11 9 /179.0°E Detective

0130 GMT

I11 22 /179.0°E MacNeil, Lehrer Report

0135 GMT

I11 14 /179.0°E SPORTS-Jack High: Mazda International Bowls Tournament

0140 GMT

I11 9 /179.0°E Flip, Slide, Turn

All times are Greenwich Meridian time

0155 GMT

I11 9 /179.0°E Australian Wildlife Club Bulletin

0200 GMT

I11 9 /179.0°E Antenna: Pop music clips, comedy, film consumer reviews and important issues for young people.

0225 GMT

I11 9 /179.0°E Roger Ramjet: "G".

0230 GMT

I11 22 /179.0°E CNN Continues
I11 9 /179.0°E Sweet and Sour

0235 GMT

I11 14 /179.0°E Buongiorno Italia: A series of programs for beginners in Italian.

0255 GMT

I11 9 /179.0°E On the Road

0300 GMT

I11 14 /179.0°E The Media
I11 9 /179.0°E Beatbox: Rock music lifestyle program.

0320 GMT

I11 14 /179.0°E Detective

0330 GMT

I11 22 /179.0°E NBC Tonight Show starring Johnny Carson

0340 GMT

I11 14 /179.0°E Flip, Slide, Turn

0355 GMT

I11 14 /179.0°E Australian Wildlife Club Bulletin
I11 9 /179.0°E SPORTS-Rugby World

0400 GMT

I11 14 /179.0°E Antenna: Pop music clips, comedy, film consumer reviews and important issues for young people.

0425 GMT

I11 14 /179.0°E Roger Ramjet: "G".

0430 GMT

I11 14 /179.0°E Sweet and Sour
I11 22 /179.0°E CNN Sports Tonite

0455 GMT

I11 14 /179.0°E On the Road

0500 GMT

I11 14 /179.0°E Beatbox: Rock 'n roll lifestyle program.

I11 22 /179.0°E ABC Nightline

0530 GMT

I11 22 /179.0°E CNN Headline News

0555 GMT

I11 14 /179.0°E SPORTS-Rugby World

0600 GMT

I11 22 /179.0°E AFRTS Sign Off: With advisories if necessary, followed by CNN commercial feed.

0630 GMT

I11 9 /179.0°E SPORTS-World Sports Roundup

0650 GMT

I11 9 /179.0°E SPORTS-Harness Racing

0700 GMT

I11 9 /179.0°E Countdown: Pop Show.
P02 9 /77.0°E Program Summary

0710 GMT

P03 10 /108.0°E Program Summary

0720 GMT

P02 9 /77.0°E SPORTS-Sport Features
P03 10 /108.0°E Help! Its the Hair Bear Bunch: Children's program.

0740 GMT

P02 9 /77.0°E Chips: US Police drama.

0800 GMT

I11 9 /179.0°E League '85

0820 GMT

P03 10 /108.0°E Asian Film: Hindi,Tamil,Etc.

0830 GMT

I11 14 /179.0°E SPORTS-World Sports Roundup

0840 GMT

P02 9 /77.0°E Follow Me!: Children's program.

0850 GMT

I11 14 /179.0°E SPORTS-Harness Racing

0900 GMT

I11 14 /179.0°E Countdown: Pop Show.
I11 9 /179.0°E Weekend National: News, weather and sports.

0915 GMT

P02 9 /77.0°E Bimbingan Agama

0930 GMT

I11 9 /179.0°E Life on Earth: "G".

1000 GMT

I11 14 /179.0°E League '85
P02 5 /77.0°E Flor de Luna: Dramatic series.
P02 9 /77.0°E News

1015 GMT

P02 9 /77.0°E Egyptian Drama Series

1025 GMT

I11 9 /179.0°E Saturday Night

1045 GMT

P03 10 /108.0°E Peristiwa

1100 GMT

I11 14 /179.0°E Weekend National: News, weather, and sports.
I17 20 /57.0°E Royal Anthem-Holy Koran: Religious talk.
P02 5 /77.0°E Newswatch: Evening edition in English.

P02 9 /77.0°E Sylar Ramadan: Religious.
P03 10 /108.0°E News: Tamil.

1115 GMT

P03 10 /108.0°E Tumpuan Minggu

1125 GMT

I17 20 /57.0°E Cartoon: Children's programming.

1130 GMT

I11 14 /179.0°E Life on Earth: "G".
P02 5 /77.0°E Saturday SFM Prime Time: Manila Talk show.
P02 9 /77.0°E Beat the Clock: US Game show.

1140 GMT

P03 10 /108.0°E Living Tomorrow Documentary Series

1200 GMT

I11 9 /179.0°E Late Night Movie: "PGR".
I17 20 /57.0°E Educational Program
P02 9 /77.0°E National News
P03 10 /108.0°E National News

1225 GMT

I11 14 /179.0°E Saturday Night
P02 9 /77.0°E Hari Ini Dalam Sejarah: Today in History.
P03 10 /108.0°E Evening Program Summary

1230 GMT

I17 20 /57.0°E Program for Children
P02 5 /77.0°E Duplex: Comedy.
P02 9 /77.0°E Evening Program Summary
P03 10 /108.0°E Documentary

1300 GMT

I11 22 /179.0°E AFRTS Sign On: Schedules, advisories and color bars.
I17 20 /57.0°E Open Seasame: Children's program in Arabic.
P03 10 /108.0°E News: Mandarin.

1320 GMT

P03 10 /108.0°E SPORTS-The Olympiad,After the Summer: General Sports.

1325 GMT

I11 9 /179.0°E Rockline: Pop music clips.

1330 GMT

I11 22 /179.0°E CNN Headline News
P02 5 /77.0°E Blockbusters: US Game show.

1340 GMT

I17 20 /57.0°E Arabic Serial

1400 GMT

I11 14 /179.0°E Late Night Movie: "PGR".
I11 22 /179.0°E PBS Washington Week In Review
P02 9 /77.0°E MOVIE-Movie of the Week: Foreign Films.
P03 10 /108.0°E Sukan

1415 GMT

I11 9 /179.0°E Close

1430 GMT

I11 22 /179.0°E Navy News This Week
I17 20 /57.0°E Cultural Program
P02 5 /77.0°E Wok with Yan: US Cooking show.
P03 10 /108.0°E News: English.

1445 GMT

P02 9 /77.0°E Hari Ini Dalam Sejarah: Today in History.

1450 GMT

P02 9 /77.0°E Archie Bunker's Place: US series.
P03 10 /108.0°E T. J. Hooker: US Police drama.

1500 GMT

I11 22 /179.0°E CNN Continues
I17 20 /57.0°E News: Local.
P02 5 /77.0°E This Week Tonight: News

1505 GMT

I17 20 /57.0°E Cultural Program

1525 GMT

I11 14 /179.0°E Rockline: Pop music clips.

1530 GMT

I11 22 /179.0°E CNN Headline News
P02 5 /77.0°E MOVIE-Relax and Watch a Movie

1545 GMT

P02 9 /77.0°E Late News

1600 GMT

I11 22 /179.0°E SPORTS-Major Sports Event
I17 20 /57.0°E English Serial

1615 GMT

I11 14 /179.0°E Close

1700 GMT

I17 20 /57.0°E News: Arabic.

1725 GMT

I17 20 /57.0°E Arabic Serial

1830 GMT

I17 20 /57.0°E News: English.

1900 GMT

I11 22 /179.0°E SPORTS-ABC Wide World of Sports
I17 20 /57.0°E Local Program

2030 GMT

I17 20 /57.0°E News in Brief-Holy Koran

2045 GMT

I17 20 /57.0°E Royal Anthem

2200 GMT

I11 22 /179.0°E CNN Headline News
I11 9 /179.0°E SPORTS-Rugby World

2300 GMT

I11 22 /179.0°E CNN Continues
I11 9 /179.0°E Playmates: Children's programming.

2330 GMT

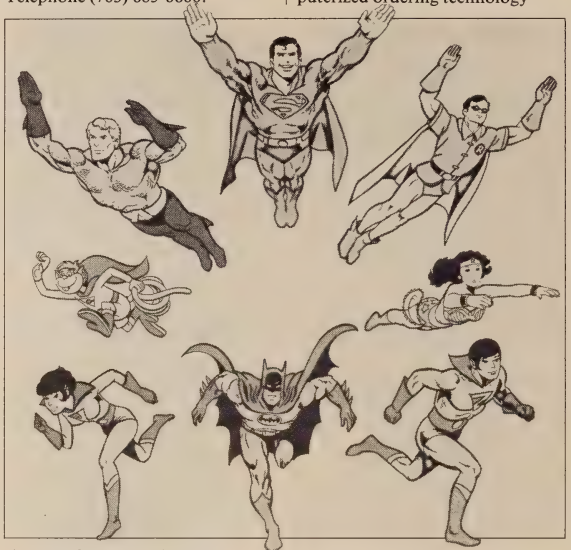
P02 5 /77.0°E Newswatch: Filipino edition.

(continued from page 11)
currently asking for. Long-term plans are also shaky; the Societe Europenee de Satellites (SES: the new DBS consortium that replaced Clay Whitehead, an American, and the Coronet project in the Grand Duchy's heart) was left without a satellite when the displaced Coronet project refused a 5 percent stake in SES and closed down its Luxembourg office in May 1985. Coronet is now trying to attract loyal European suitors with its paper dowry: two 47-watt, 16-transponder, RCA Satcom-4000 DBS contracts.

American Telephone & Telegraph Co. (AT&T) will buy Communications Satellite Corp.'s (Comsat) 50 percent share of three U.S. earth stations—one in Etam, West Virginia, one in Jamesbury, California, and one in Roaring Creek, Pennsylvania—in 1988 for U.S.$55 million. The other 50 percent of the earth stations is owned by a number of other common carriers. In December 1984, the U.S. Federal Communications Commission (FCC) ruled Comsat must set separate earth-segment and space-segment rates for accessing International Telecommunications Satellite Organization (Intelsat) services so that U.S. common carriers can own and operate Intelsat-linked earth stations independent of Comsat. As part of its move towards smaller, customer-premises earth stations, Comsat also plans to phase out its earth stations in Andover, Maine, and Brewster, Washington, by 1987.

Megumu Sato, Japan's Minister of Posts and Telecommunications (MPT), and the MPT Advisory Council have approved five Type I common carrier satellite system proposals: Dai Ni Den Den, backed by Kyocera; Teleway Japan, backed by Japan Public Highway Corp. and Toyota; Nihon Telecom, backed by Japan National Railways; Japan Communications Satellite Co. (JCSat), backed by Hughes Aircraft Co. (see *Voice & Data,* June 1985); and Space Communications (SC), backed by Ford Aerospace, Mitsubishi Corp., and Mitsubishi Electric. Type I permit holders could compete with recently privatized Nippon Telephone & Telegraph (NTT), but the MPT says NTT cannot purchase a U.S. satellite unless it is compatible with Japan's space development program. JCSat has ordered two 32-transponder Ku-band satellites and earth stations valued at U.S.$300 million from Hughes; the first launch is planned for December 1987. Sony and RCA may submit another satellite system proposal to the MPT.

CaribeCom '85, a computer and telecommunications exhibition and conference, will take place September 10-12, 1985, at the oceanfront El Centro Convention Center in San Juan, Puerto Rico. The Caribbean Telecommunications Council will meet during the conference. For more information, contact: Latcom Inc., Suite 219, 3421 M St. N.W., Washington, D.C. 20007 U.S.A. Telephone (703) 685-0600.



Are superheroes good role models?

After five years of debate, the APA's Council of Representatives recently released a report linking U.S.-produced children's programing and aggressive behavior in children. "Televised violence does not harm every child that watches it," says Dr. Diana Zuckerman of the Office of National Policy Studies of the American Psychological Association (APA). "However, the evidence clearly shows that many children imitate the violent behaviors and attitudes they see on TV."

Brigadier General Donald L. Cromer will be the featured speaker at the opening session of the 21st annual International Telemetering Conference (ITC) that will take place October 28 – 31, 1985, at the Riviera Hotel in Las Vegas, Nevada, U.S.A. The theme of this year's conference and exhibition is "Transition to Space-Based Instrumentation Systems—Preparing for the Challenge of the 90s." For more information, contact: The International Telemetering Conference, 889 Hazel St., Livermore, CA 94550 U.S.A. Telephone (415) 447-4633.

Showtime/The Movie Channel has formed an as yet unnamed venture to market pay-per-view program offerings through addressable U.S. cable systems. Participating cable operators would use telephone-based computerized ordering technology such as Zenith's "Phonevision" system. Zenith's headend system can automatically run billing-record credit checks and activate viewers' addressable set-top units at a rate of about 1000 calls per minute.

The 10 member countries of the European Economic Community (EEC) have agreed *not* to approve either the C-MAC system or the D2-MAC system as satellite broadcast standards until Western European countries can agree on a single standard. The EEC hopes to protect the European electronics industry from the same sort of complications that arose from the split over the PAL and SECAM color standards.

The U.S. Air Force defines space as "the ultimate high ground." According to the Aerospace Basic Doctrine section of the *Air Force Manual* written in 1982, the U.S. Air Force must develop, sustain, and employ space systems that ensure the ability to deter and resolve conflict on terms favorable to the United States. "The Air Force will maintain U.S. technological superiority in the aerospace," the manual states, "and ensure a prolonged war-fighting capability by developing the potential for combat operations in the space medium." A unified U.S. Air Force and U.S. Navy space command, to be activated sometime in 1985, was authorized by President Reagan before the latest United States and Union of Soviet Socialist Republics arms-control talks.

More than 75 percent of all commercials shown on Japanese TV only last 15 seconds. Market researchers say that Japanese viewers can get 60 to 80 percent of the information conveyed by a U.S.$35,000 prime-time 30-second TV ad in the 15-second format. The 15-second spots, used for name recognition reinforcement rather than new-product introductions, sell for half of what a 30-second slot costs. In the United States, 15-second slots sell for 70 percent of what a 30-second slot costs.

INTELEVENT '85, an international telecommunications conference, will take place September 22 – 25, 1985, at the Hotel Montfleury in Cannes, France. Scheduled speakers include Richard E. Butler, secretary general of the International Telecommunications Union (ITU), and Andre Caruso, Secretary General of the European Telecommunications Satellite Organization (Eutelsat). For more information, contact: International Televent Inc., 1120 Connecticut Ave. N.W., Washington, D.C. 20036 U.S.A. Telephone (202) 857-4612.

Hughes Communications Carrier Services Inc. (HCCS), a division of Hughes Communications, a wholly owned subsidiary of Hughes Aircraft Co., has filed with the U.S. Federal Communications Commission (FCC) for permission to market international business services (IBS) to countries in the Atlantic and Pacific Ocean regions by means of the International Telecom-

munication Satellite Organization (Intelsat) system from Hughes earth stations in the United States. The new service is slated to begin in the Atlantic Ocean region late in 1985 and in the Pacific Ocean region late in 1986 if the FCC and foreign regulatory agencies approve. HCCS hopes to take advantage of the Reagan administration's new international satellite telecommunications policy by bypassing the Communication Satellite Corp. (Comsat). HCCS sources say a full range of all-digital data transmission rates, from 56 kb/s to 1.544 Mb/s and up, will be available.

After the 1984 U.S. presidential election, the National Broadcasting Company (NBC), the Columbia Broadcasting System (CBS), and the Cable News Network (CNN) were criticized by politicians and organizations in the western United States that felt that exit-poll predictions of a Reagan landslide adversely affected the outcome of local elections by minimizing Republican and Democratic voter turnout. The American Broadcasting Companies (ABC), NBC, and CBS have asked a congressional subcommittee to draft legislation that would simultaneously close polls in all four continental U.S. time zones in 1988. In 1984, ABC made no election-outcome predictions until West Coast polls were closed.

According to the Soviet Union, cosmonauts that participated in a record-length eight-month orbital mission suffered from severe muscular atrophy and other physical problems after they returned to Earth. Future Soviet missions may be limited to six months. The *Olympus* crew and crews of interplanetary missions that could use *Olympus* as a jumping-off point after 1992, may have to spend much of their time in spinning "artificial" gravity environments similar to those first envisioned by Willy Ley in the 1950s.

British Telecom plc recently bought 51 percent of the financially troubled Mitel Corp. of Ontario, Canada's second largest telecommunications equipment manufacturer, for U.S.$215 million. The British government sold off 50.2 percent of British Telecom (BT) in November 1984. BT's first expansion into hardware manufacturing gives it a North American base from which it hopes to market digital telephony switches. Mitel reported a slight profit of U.S.$64,000 on a revenue of U.S.$107.5 million for the fiscal quarter that ended in February 1985.

South African Broadcasting Corp. (SABC) reported a 1984 operational deficit of U.S.$800,000, down from the operational surplus of U.S.$8.9 million reported in 1983. Over the last year income rose 15.2 percent while expenditures rose by 22.6 percent. Meanwhile, SABC is discussing a transponder lease with the International Telecommunications Satellite Organization (Intelsat). SABC hopes to begin transmitting one TV channel and five radio channels to remote areas by the middle of 1986.

Pacific Telesis Group of San Francisco, U.S.A., and Telephonica, Spain's national telephone company, may build a joint telecommunications research facility in Madrid. The laboratory could be operational by 1987.

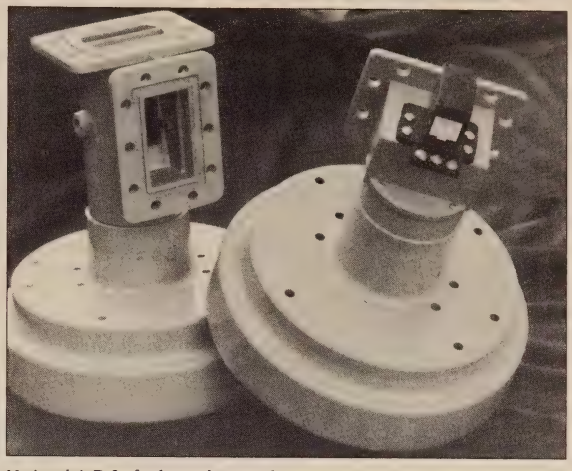
Merrill Lynch has invested U.S.$4 million in DataCast Inc., a U.S. company that plans to distribute stock market quotes and other financial data in the vertical blanking interval of the domestic U.S. Financial News Network's satellite- and cable-distributed video signal. Subscribers would use set-top decoders to input DataCast information into their personal computers. The U.S. government does not regulate or tax the use of personal computers.

The A.C. Neilson Co. May 1985 estimate for total U.S. cable TV households was 38.65 million. Estimated U.S. cable penetration was 45.3 percent, up 7 percent since May 1984.

HARDWARE

SkyChannel, a Eutelsat I-F1 programmer using Wegener's stereo audio system, has made Model 1602 single-channel and 1601 four-channel Wegener stereo processors available to cable affiliates. The units accept composite baseband input from a TVRO receiver and provide either audio or FM multiplex signal output. For more information, contact:

- Wegener Communications, Inc., 150 Technology Park, Norcross, GA 30092, U.S.A. Telephone (404) 448-7288.
- Megasat Ltd., 5 St. Pancras Commercial Centre, 63 Pratt St., London NW1 0BY, United Kingdom. Telephone 01 267 5222.
- Hutronic BV, Paddestoelweg 136, 2403 HD Alphen a/d Rijn, The Netherlands. Telephone 01720-43680.



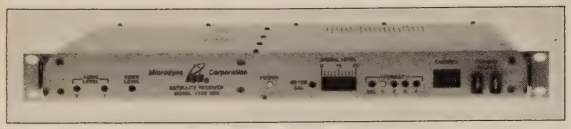
National A.D.L. feeds use three modes.

International Satellite Systems (ISS) has introduced the GL-1600 16-input Active Combining Network for SMATV. The unit combines up to 16 signals from audio/video modulators into one 60 dBmV output signal that drives the cable distribution system. Input to output gain is 45 dB, and the isolation between ports is better than 45 dB, according to ISS. For more information, contact: International Satellite Systems, 1004 Del Norte, Menlo Park, CA 94025, U.S.A. Telephone (415) 853-0833.

National A.D.L. Enterprises has introduced a line of die-cast aluminum dual hybrid mode C-band feeds. The feeds' aperture field generators are divided into a circular plane surrounded by a ring-shaped plane that, according to A.D.L., improves front or offset feed illumination and terrestrial interference (TI) rejection. For more information, contact: National A.D.L. Enterprises, 3156 Reservoir Rd., Simi Valley, CA 93065, U.S.A. Telephone (805)'526-5249.

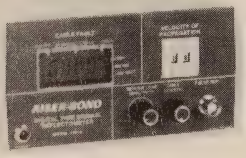
Luxor AB of Sweden has introduced the Mark 2 receiver, a block down conversion unit that accepts 950- to 1750-MHz LNB input from C- or Ku-band LNBs, to its North American line. The unit is factory preprogrammed for a 24 channel format. It has automatic fine tuning (AFC), and can be operated with a hand-held infrared keypad. An optional remote infrared sensor is also available. For more information, contact: Luxor North America Corp., P.O. Box 32 Bellevue, WA 980090032, U.S.A. Telephone (206) 451-4414 ►

Luxor's dual-band Mark 2 receiver



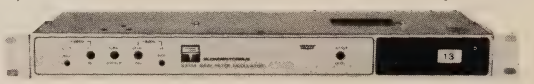
The 1100 HDR commercial dual-band receiver

Microdyne's 1100 HDR 96-channel commercial satellite video receiver and C- and Ku-band low noise converters (LNCs) offer flexible access to international satellite programming. The receiver has front panel format selection; 48 channels are preset, and the other 48 are customer specified. The 1100 HDR accepts 950- to 1700-MHz LNC input. Transponder format, polarity, LO inversion, and channel selection can be remote controlled by binary coded decimal (BCD) input or by Microdyne's Remote Control System. Dual intermediate frequency filters are available for half- and full-transponder signals. Other options include alternate bandwidth selection, dual audio demodulators, audio subcarrier selection, and de-emphasis filters. Microdyne's 100-degree Kelvin C-band LNC has a typical conversion gain of 60 dB; the 225 degree Kelvin Ku-band LNC has a conversion gain of 54 dB ±4 dB. The 950- to 1450-MHz LNCs are available in other temperatures. A data sheet describing the receiver and LNCs in more detail is available from the manufacturer. For more information, contact: Microdyne Corp., P.O. Box 7213, Ocala, FL 32672, U.S.A. Telephone (904) 687-4633.



The 2091B Digital TDR

Riser-Bond Instruments, formerly AvTek Inc., has introduced the model 2901B Digital TDR, a time domain reflectometer for locating cable faults. The 2901B can be used to test metallic paired cable, coaxial cable, twisted-pair cable, and flat ribbon cable runs of up to 11,000 feet (3350m). It is equipped with a variable 20- to 40-dBRL loss sensitivity control, a five digit liquid crystal display (meters or feet), a powered-cable warning, and a low battery indicator. For more information, contact: Riser-Bond Instruments, 505 16th St., Aurora, NE 68818, U.S.A. Telephone (402) 694-5201.



Blonder-Tongue's SAW-filtered modulator

Blonder-Tongue's SAVM 5943 is a standing acoustic wave (SAW) filtered heterodyne audio/video modulator that can insert sound and color video into any unused channel of a community antenna TV (CATV), master antenna TV (MATV), or satellite master antenna TV (SMATV) system (see *Satellite World,* May 1985). According to the manufacturer, the modulator has vestigial sideband selectivity for adjacent color systems, and a SAW filter with flat group delay and maintenance-free bandpass characteristics. The SAVM 5943 accepts a signal with a standard peak-to-peak level of 0.7 to 2.5 V, and delivers a modulated 45-dBmV output signal. Audio preemphasis permits the transmission of BTSC format stereo audio signals. For more information, contact: Blonder-Tongue Laboratories Inc., One Jake Brown Rd., Old Bridge, NJ 08857, U.S.A. Telephone (201) 679-4000.

Scientific Atlanta (SA) has introduced a number of new cable system products:

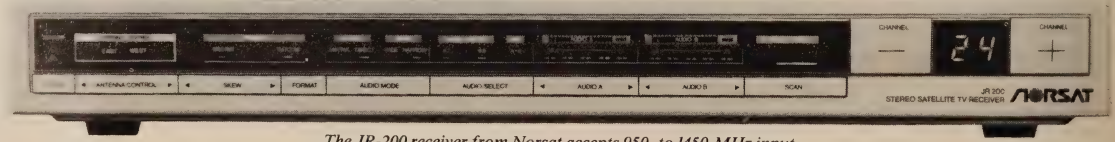
- Autoserter, a commercial insertion system, plays spots off a prerecorded tape in sequential order, automatically rewinds, and begins again. It can be easily upgraded to a computer-controlled random access system that generates a continuous verification printout.
- The Model 8525 set-top cable terminal has an infrared remote control receiver that a cable operator can use to reprogram the unit's non-volatile memory; no custom-configured PROM chip is used. The 8525 also has a user programmable "favorite channel" tuning memory, and parental control.
- The Model 8555 addressable set-top cable terminal is for use with 550-MHz expanded bandwidth systems. It can handle up to 80 channels.
- The computerized Series 2400 PPV Entertainment System for motels and hotels delivers regularly available programming and selected pay-per-view programming to individual sets. Premium services purchased through interactive set-top terminals are automatically billed by the system's manager computer. The system can deliver satellite, off-cable, and videotape format programming.
- The new Model 6380 stereo headend encoder can deliver BTSC-format stereo audio through cable systems equipped with Series 8500 set-top terminals. SA's system is compatible with its proprietary dynamic switched sync suppression scrambling system as well as sync suppression techniques used by other vendors.
- The Series 8345 4.5-meter (14.5-foot) C- and Ku-band parabolic reflector consists of 12 stretch-formed aluminum panels. According to SA, the prime focus feed antenna's sidelobe performance is compatible with 2 degree spacing, and improved surface accuracy results in additional gain.

For more information, contact: Scientific-Atlanta Inc., One Technology Parkway, Box 105600, Atlanta, GA 30348, U.S.A. Telephone (404) 441-4000.

Hytek's Millenium II LNA

Hytek's C-band Super B, a compact low noise block downconverter (LNB), is built around a single "monolithic" chip containing two-stage low noise amplifier (LNA) and downconverter circuitry. The Super B also incorporates a dielectric resonant oscillator (DRO) and a low pulse noise generator. Hytek's C-band Millennium II non-isolated design low noise amplifier (LNA) has a gain of 48 dB and is available in noise temperature ratings of 55 to 85 degrees Kelvin. For more information, contact: Hytek, 3602 East 20th, Joplin, MO 64801, U.S.A. Telephone (417) 624-4061.

The decoder-compatible JR-200 satellite receiver from Norsat accepts 950- to 1450-MHz intermediate frequency input, and is equipped with infrared remote control, automatic quartz synthesized video tuning, automatic A-B switching from satellite to cable TV, automatic audio tuning search, and a microprocessor memory. The unit is factory tuned to the U.S. C-band channelization scheme, the same scheme used by the Brazilsat and Morelos systems. For more information, contact: Norsat International, Inc., 302-12886 78th Ave., Surrey, British Columbia V3W 8E7, Canada. Telephone (604) 591-3335.



The JR-200 receiver from Norsat accepts 950- to 1450-MHz input.

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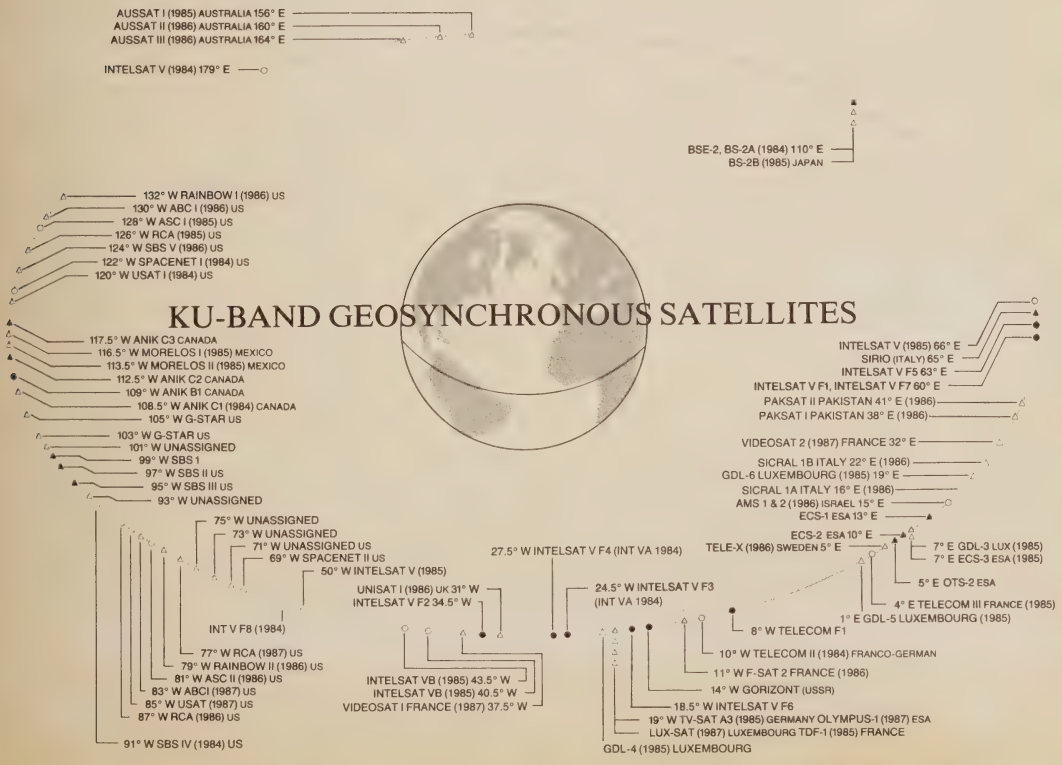
Ku-band

Keep up to date with the latest development in Ku-band satellite systems around the world, including GDL/Coronet, ECS, SBS, I, II, and III, the Aniks, and PanAmSat, *Satellite World* features Ku-band equipment reviews, discusses the pros and cons of true DBS service, and examines volatile issues such as how signal spillover might influence cultural makeups.


KU-BAND GEOSYNCHRONOUS SATELLITES
AUSSAT I (1985) AUSTRALIA 156° E
AUSSAT II (1986) AUSTRALIA 160° E
AUSSAT III (1986) AUSTRALIA 164° E
INTELSAT V (1984) 179° E
BSE-2, BS-2A (1984) 110° E
BS-2B (1985) JAPAN
132° W RAINBOW I (1986) US
130° W ABC I (1986) US
128° W ASC I (1985) US
126° W RCA (1985) US
124° W SBS V (1986) US
122° W SPACENET I (1984) US
120° W USAT I (1984) US
117.5° W ANIK C3 CANADA
116.5° W MORELOS I (1985) MEXICO
113.5° W MORELOS II (1985) MEXICO
112.5° W ANIK C2 CANADA
109° W ANIK B1 CANADA
108.5° W ANIK C1 (1984) CANADA
105° W G-STAR US
103° W G-STAR US
101° W UNASSIGNED
99° W SBS I
97° W SBS II US
95° W SBS III US
93° W UNASSIGNED
75° W UNASSIGNED
73° W UNASSIGNED
71° W UNASSIGNED US
69° W SPACENET II US
50° W INTELSAT V (1985)
INT V F8 (1984)
77° W RCA (1987) US
79° W RAINBOW II (1986) US
81° W ASC II (1986) US
83° W ABCI (1987) US
85° W USAT (1987) US
87° W RCA (1986) US
91° W SBS IV (1984) US
UNISAT I (1986) UK 31° W
INTELSAT V F2 34.5° W
INTELSAT VB (1985) 43.5° W
INTELSAT VB (1985) 40.5° W
VIDEOSAT I FRANCE (1987) 37.5° W
27.5° W INTELSAT V F4 (INT VA 1984)
24.5° W INTELSAT V F3
(INT VA 1984)
GDL-4 (1985) LUXEMBOURG
INTELSAT V (1985) 66° E
SIRIO (ITALY) 65° E
INTELSAT V F5 63° E
INTELSAT V F1, INTELSAT V F7 60° E
PAKSAT II PAKISTAN 41° E (1986)
PAKSAT I PAKISTAN 38° E (1986)
VIDEOSAT 2 (1987) FRANCE 32° E
SICRAL 1B ITALY 22° E (1986)
GDL-6 LUXEMBOURG (1985) 19° E
SICRAL 1A ITALY 16° E (1986)
AMS 1 & 2 (1986) ISRAEL 15° E
ECS-1 ESA 13° E
ECS-2 ESA 10° E
TELE-X (1986) SWEDEN 5° E
7° E GDL-3 LUX (1985)
7° E ECS-3 ESA (1985)
5° E OTS-2 ESA
4° E TELECOM III FRANCE (1985)
1° E GDL-5 LUXEMBOURG (1985)
8° W TELECOM F1
10° W TELECOM II (1984) FRANCO-GERMAN
11° W F-SAT 2 FRANCE (1986)
14° W GORIZONT (USSR)
18.5° W INTELSAT V F6
19° W TV-SAT A3 (1985) GERMANY OLYMPUS-1 (1987) ESA
LUX-SAT (1987) LUXEMBOURG TDF-1 (1985) FRANCE

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C-band

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INTELSAT IVA F6 175° E
INTELSAT IVA F3 179° E
INTELSAT V (1984) 179° E
INTELSAT IVA F3 (1985) 176° E
130° E SAKURA B2 (1983) JAPAN
135° E SAKURA A1 (1983) JAPAN
PALAPA B4 (1985) INDONESIA 118° E
PALAPA B3 (1984) INDONESIA 113° E
PALAPA B1 INDONESIA 108° E
ISCOM INDIA 105° E
GORIZONT 8 USSR 90° E
RADUGA USSR 85° E
PALAPA A1 INDONESIA 83° E
PALAPA A2 INDONESIA 77° E
*INSAT 1B INDIA 74° E
INTELSAT V (1985) 66° E
INTELSAT V F5 63° E
INTELSAT V F1, INTELSAT V F7 60° E
INT V F1 57° E
GORIZONT 9 USSR 53° E
RADUGA USSR 45° E
RADUGA USSR 35° E
ARABSAT (1985) 26° E
ARABSAT (1984) 19° E
AMS 1 & 2 (1986) ISRAEL 15° E
APEX (1986) FRANCE 10° E
TELECOM 3 FRANCE (1985) 4° E
F-SAT I FRANCE 7° E (1987)
INTELSAT IV F8 1° W
INT IV F2 4° W
5° W TELECOM II (1985) FRANCE
8° W TELECOM 1 FRANCE
11.5° W SYMPHONIE, SYMPHONIE II FRANCO-GERMAN
14° W GORIZONT 7 USSR
18.5° W INTELSAT V F6
21.5° W INTELSAT IVA F4
24.5° W INTELSAT V F3 (INT VA 1984)
27.5° W INTELSAT V F4 (INT VA 1984)
143° W SATCOM V US
141° W UNASSIGNED
139° W SATCOM IR US
137° W UNASSIGNED
134° W GALAXY I US
131° W SATCOM IIIR US
128° W ASC I (1985) US
127° W COMSTAR IV US
125° W TELSTAR 3C US
123° W WESTAR V US
122° W SPACENET I US
109° W ANIK B1, ANIK D2 (1984) CANADA
104.5° W ANIK D1 CANADA
99° W WESTAR IV US
96° W TELSTAR 301 US
93.5° W GALAXY II (1984) US
76° W TELSTAR (1985), COMSTAR D1/D2 US
75° W SAT COLOMBIA (1985)
74° W GALAXY II (1983) US
72° W SATCOM VI (1986), SATCOM F2R US
70° W SBTS AI (1985) BRAZIL
69° W SPACENET II US
67° W SATCOM VI (1986) US
65° W SBTS A2 (1985) BRAZIL
53° W INTELSAT V F8
50° INTELSAT IV FI (1984)
43.5° W INTELSAT VB (1985)
40.5° W INTELSAT VB (1985)
34.5° W INTELSAT V F2
31° W INTELSAT IVA F1
78.5° W WESTAR III (1984) US
79° W RAINBOW II (1986) WESTAR II US
81° W ASC II (1986) US
83° W ABC I (1987) SATCOM IV US
85° W USAT (1987) US
86° W TELSTAR 3B (1984) US
87° W RCA (1986) COMSTAR III US
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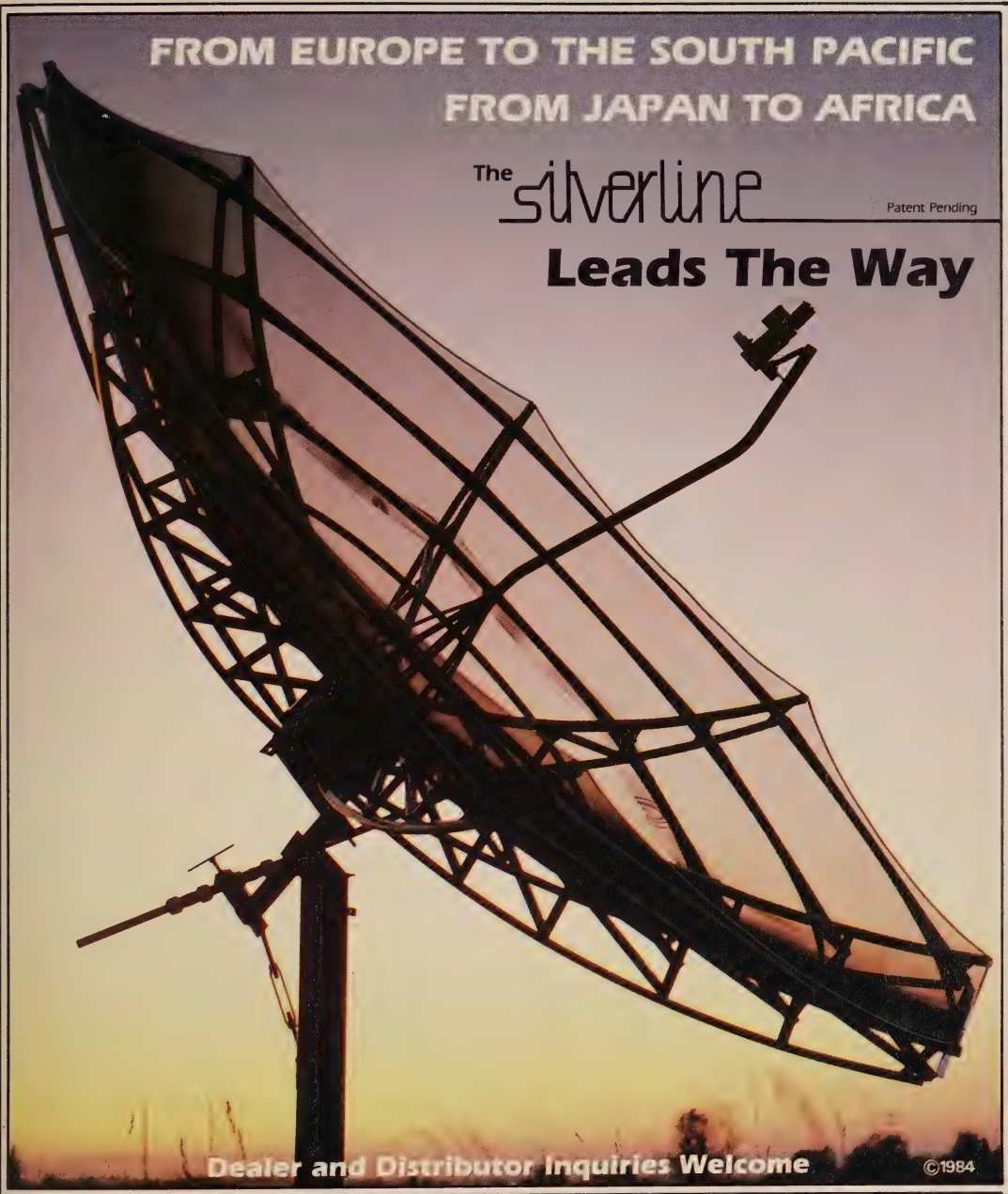

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SHOW DATES

August 1985

8 – Sept. 13 **Space WARC**—Planning of space services in geostationary orbit, Geneva, Switzerland.

30 – Sept. 8 **International Audio and Video Fair**—Berlin, Germany.
VIDTEL '85—Video and Television techniques exhibition, Birmingham, England.

September

10 – 12 **CaribeCom**—Caribbean telecommunications show, San Juan, Puerto Rico.

17 – 19 **International Telecommunications Users Conference**—Munich, West Germany.

October

2 – 4 **Hong Kong Electronics Fair**—Hong Kong.

15 – 17 **Satellite Communications Users Conference**—New Orleans, Louisiana, U.S.A.

18 – 23 **16th Korea Electronics Show**—Consumer and industrial electronics exhibition including communications and broadcast equipment, test and measuring hardware, components and parts, and related equipment, Seoul, Korea.

22 – 25 **INTELEVENT '85**—International telecommunications conference, Hotel Montfleury, Cannes, France..

28 – 30 **Cellular Communications '85**—Conference and exhibition, New York, U.S.A.

28 – 31 **International Telemetering Conference**—Las Vegas, Nevada, U.S.A.

29 – 31 **Videotex International**—Conference and exhibition, RAI Centre, Amsterdam, the Netherlands.
Japan Electronics Show—Osaka, Japan.
Taiwan Electronics Show—Taipei, Taiwan.

November

5 – 7 **Cellular Communications International**—Conference and exhibition, Wembly Center, London, England.

6 – 7 **Satellite Communications**—Conference held in Tara Hotel, London, England.

December

2 – 5 **Globecom '85**—World telecommunications conference, New Orleans, Louisiana, U.S.A.

3 – 5 **Computer Communications '85**—Conference and exhibition, Singapore.

January 1986

12 – 15 **PTC '86**—Eighth annual forum of the Pacific Telecommunications Council, Honolulu, Hawaii.

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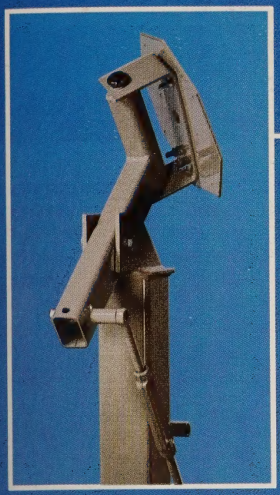

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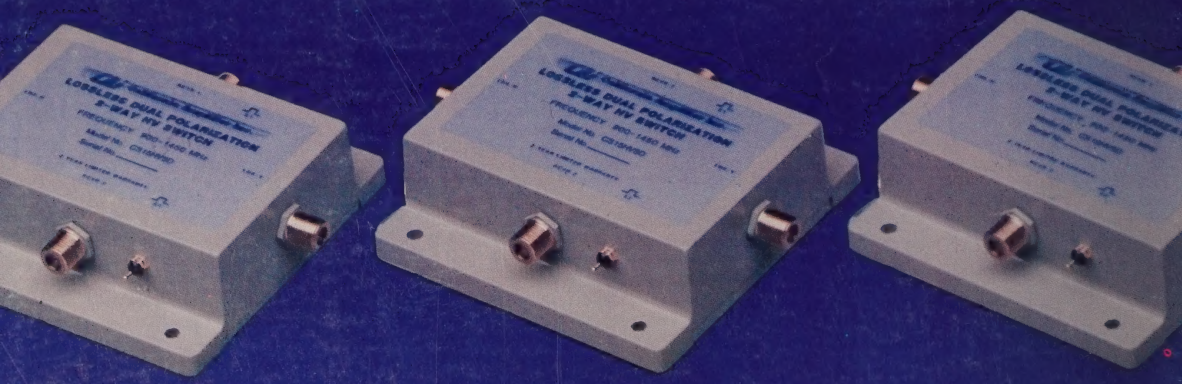

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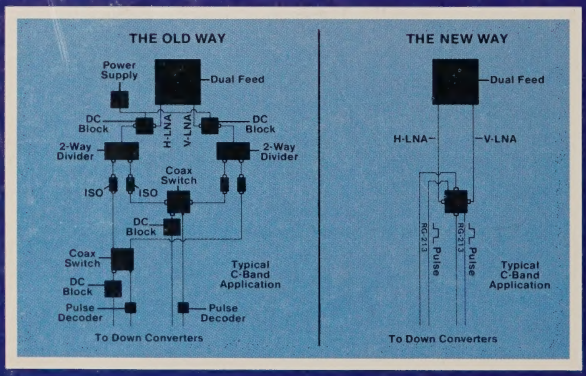

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900-1450 MHz	CS15HV5D	L 4" x W 4" x H 1.25"
3.7-4.2 GHz	CS42HV5D	L 7" x W 2" x H 1"

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